

A VASCULAR FLORA SURVEY OF CALCASIEU PARISH, LOUISIANA

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ABSTRACT

Located in southwestern Louisiana, Calcasieu Parish is composed of five major vegetation regions. These regions are defined by their respective vascular plant composition and physiography. A field survey of the vascular flora of the approximately 2,844 square kilometers that make up the Parish was conducted from August 1995 to October 2000. Additionally, specimens housed in various Louisiana herbaria were examined to complete the survey. Names of the 1,147 specific and subspecific entries representing 147 families found during this survey have been compiled in an annotated catalogue that includes collector name and collection number for one representative specimen and a designation as to whether each species is considered native or introduced. Vegetation regions where each species occurs are included in the catalogue. An additional 134 taxa reportedly collected in Calcasieu Parish that were not discovered during our field research nor located during our visits to other herbaria are also listed. *Euphorbia texana* is reported new for Louisiana.

KEY WORDS: Vascular Plant Survey, Calcasieu Parish, Louisiana

RESUMEN

Localizado en el suroeste de Louisiana, la parroquia de Calcasieu está compuesta por cinco regiones de vegetación principales. Estas regiones se definen por su composición florística y su fisiografía. Una prospección de campo de la flora vascular de los aproximadamente 2,844 kilómetros cuadrados que componen la parroquia fue realizada desde agosto de 1995 a octubre de 2000. Adicionalmente, especímenes albergados en varios herbarios de Louisiana fueron examinados para completar el estudio. Los nombres de las 1,147 entradas específicas y subespecíficas que representan las 147 familias encontradas durante esta prospección se han compliado en catálogo comentado que incluye nombre del colector y número de la recolección de un espécimen respresentativo y una designación de cada especie sobre si se considera nativa o introducida. Se incluyen en el catálogo las regiones de vegetación en que vive cada especie. Se listan también 134 taxa adicionales citados como colectados en la parroquia de Calcasieu que no se encontraron durante la investigación de campo ni en las visitas o otros herbarios. *Euphorbia texana* se cita como nueva para Louisiana.

Located in southwestern Louisiana, Calcasieu Parish lies adjacent to Beauregard Parish to the north, Jefferson Davis Parish to the east, Cameron Parish to the south and the State of Texas to the west (Fig. 1). Summers in the Parish are hot and humid; winters are warm but are occasionally interrupted by freezing temperatures (Hardner 1960; Roy &

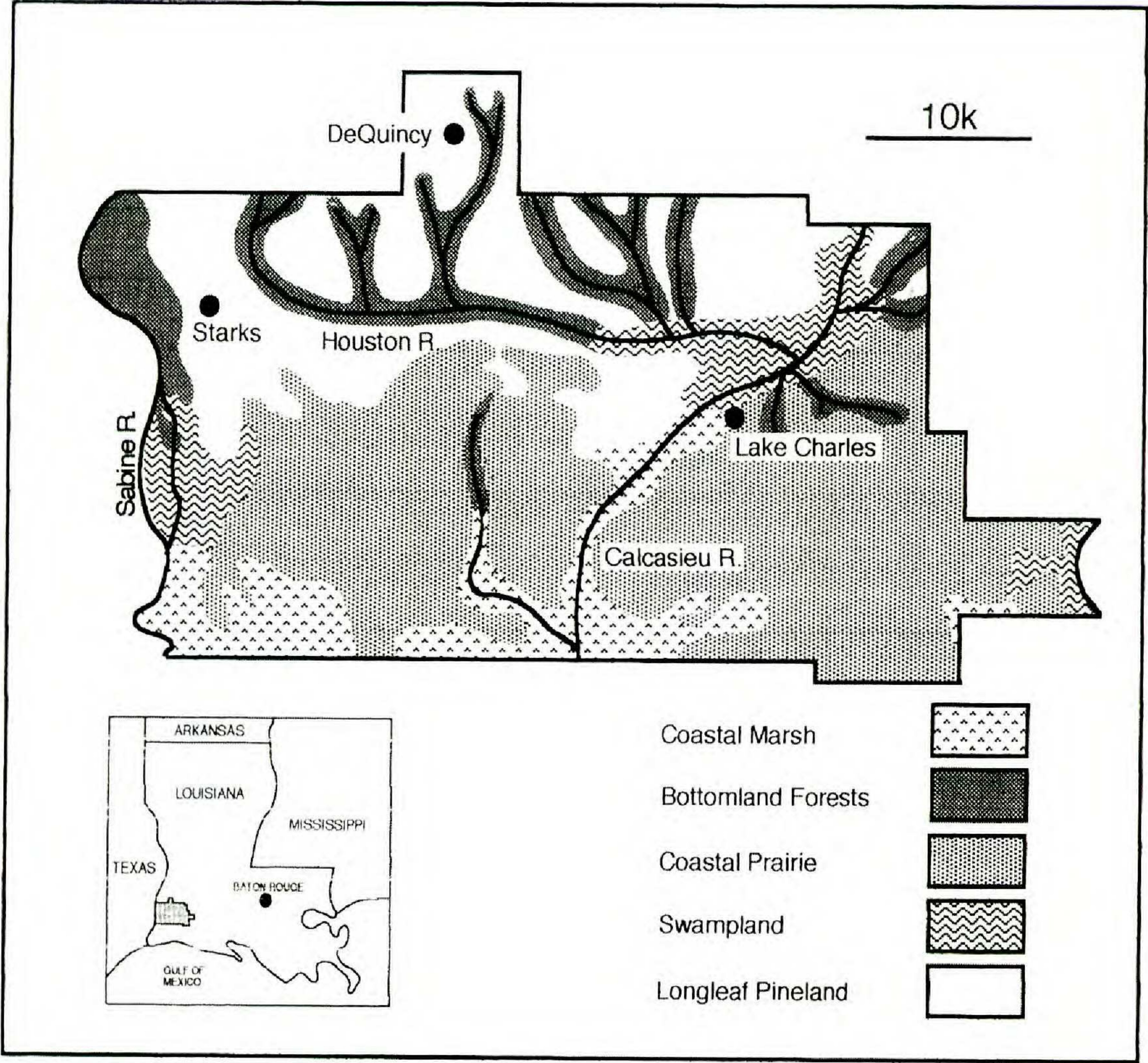


FIG. 1. The major vegetational regions of Calcasieu Parish, Louisiana. Inset shows the location of the Parish within the State.

Midkiff 1988). Annual precipitation averages 135.1 cm (Roy & Midkiff 1988). The Parish is occasionally impacted by hurricanes.

Elevation in Calcasieu Parish ranges from sea level to 29 meters (Roy & Midkiff 1988). The Calcasieu and Houston rivers drain the central and eastern portions of the Parish, and the Sabine River (Hardner 1960) drains the western portion. The Sabine Diversion Channel runs west to east near the center of the Parish and diverts water from the Sabine into the Calcasieu River. The Intracoastal Waterway is situated in the extreme southern part of the Parish and runs from Calcasieu Lake to the Sabine River. Barge traffic is extensive in the Intracoastal and to a point north of Lake Charles on the Calcasieu River (Jones et al. 1954; Roy & Midkiff 1988). A deep-water port is located in Lake Charles (Jones et al. 1954).

Calcasieu Parish lies in the West Gulf Coastal Plain geomorphic province (Fenneman 1938). Surface sediments are of Recent and Pleistocene deposits, and are underlain by

Tertiary rocks (Hardner 1960; Roy & Midkiff 1988). The recent deposits generally consist of fine sand, silt and clay and occur along the southern edge of the parish and in the Sabine and Calcasieu river valleys (Hardner 1960). The Pleistocene deposits consist of stream-transported sediment washed down during the past four glaciation periods (Hardner 1960).

Approximately 46% of the Parish's land is devoted to either agriculture or range-land; approximately 23% is woodland; 11% is marsh, 4% swamp and the remaining area is urban (Roy & Midkiff 1988). Land use is primarily devoted to producing timber, raising cattle, and growing rice and soybeans. Large petroleum-related industries are present in the Parish and are concentrated around the area of West Lake.

The purpose of this study is to survey Calcasieu Parish for all vascular plants that are native or introductions that appear to be naturalized and to define and map the vegetation regions the Parish. Cultivars and introductions that do not appear to be naturalized are excluded from the survey.

METHODS

Approximately 2,000 plant collections from Calcasieu Parish were made between August, 1995 and October 2000. Voucher specimens were prepared using standard herbarium practices and are housed in the McNeese State University (MCN) herbarium. Specimens from the following Louisiana herbaria were examined to complete this survey. These herbaria include: University of Louisiana at Lafayette (LAF); Louisiana State University (LSU), University of Louisiana at Monroe (NLU) and Tulane University (NO).

Specimens were identified primarily through the use of the following references: Allen (1992); Correll & Correll (1941); Correll & Johnston (1970); Cronquist (1980); Duncan (1975); FNA (1993, 1997); Godfrey (1988); Godfrey & Wooten (1979, 1981); Gould (1975); Radford et al. (1968) and Small (1933). For divisions Filicophyta (ferns), Lycopodiophyta (lycopods), Equisetophyta (horsetails), and Coniferophyta (conifers), nomenclature follows FNA (1993). For Magnoliophyta (angiosperms) subclasses Magnoliidae and Hamamelidae, nomenclature follows FNA (1997). For all remaining subclasses, nomenclature follows Kartesz (1999). Appropriate experts were consulted to help identify problematic taxa. These experts include Charles Allen, (Poaceae; NLU); Doug Goldman (*Calopogon*); John Hays (*Agalinis*; University of Louisiana, Monroe); Phil Hyatt (*Carex*; United States Forestry Service, Pineville, LA); David Moore (various rare taxa; United States Forestry Service, Pineville, LA); Guy Nesom (Asteraceae; North Carolina Botanical Garden); Latimore Smith (various rare taxa; National Heritage Program, Louisiana Department of Wildlife & Fisheries, Baton Rouge, LA).

From an analysis of plant collection data and recent soil survey maps (Roy & Midkiff 1988), vegetation regions within Calcasieu Parish were defined and mapped.

RESULTS

Collections made by the authors form the majority of the annotated list of vascular plants for Calcasieu Parish (Appendix I). The list includes 1,147 specific and subspecific entries

representing 147 families and 530 genera. Twenty-nine ferns, lycopods and horsetails account for about 3% of the Calcasieu Parish flora and six gymnosperms account for less than 1%. The remaining flora consists of angiosperms. About 15% of the Calcasieu Parish flora are introductions.

One-hundred and thirty-four taxa reportedly collected in Calcasieu Parish (MacRoberts 1988; Thomas & Allen 1993, 1996, 1998) that were not discovered in field research nor located during our visits to other herbaria are listed in Appendix II. Likely reasons why we were unable to locate these specimens were that they were: 1) on loan; 2) misfiled; 3) overlooked; 4) resident in herbaria not visited. When both confirmed and unconfirmed lists are added, the total number of native and naturalized taxa attributable to Calcasieu Parish is 1,281.

Three-hundred and two species, not previously recorded in the Parish, were discovered during this study. *Euphorbia texana* Boiss. is a new record for Louisiana. Five vegetation regions were identified and mapped for the Parish (Fig. 1).

DISCUSSION

Calcasieu Parish is noteworthy for the extreme transition from pinelands in the north to prairie and brackish marsh in the south. Bottomland hardwoods and swamps are associated with the Calcasieu, Sabine and Houston Rivers. Five vegetation regions in Calcasieu Parish are recognized (Fig. 1) and are discussed in terms of soil characteristics, current uses, and dominant species composition.

Coastal Prairie.—This region is characterized by soil that ranges from loamy to clayey, is medium in fertility and is used primarily for urban development, cropland and pastureland (Roy & Midkiff 1988). The main crops are soybeans and rice (Roy & Midkiff 1988). Most of the rice farming is done on the prairie because of its low altitude, low relief and the impervious nature of its subsoil (Jones et al. 1954). Extensive farming and urbanization has heavily impacted the prairie region. Dominant trees in the better-drained soils of higher elevations include *Liquidambar styraciflua*, *Pinus elliotii*, *Pinus taeda*, *Quercus alba*, and *Nyssa sylvatica*. Trees in poorly drained soils of lower elevations include *Quercus nigra*, *Quercus phellos* and *Platanus occidentalis*. Herbaceous plants typically are weedy and include many species of grasses and sedges.

Coastal Marsh.—This region is very low in relief and rarely rises more than 1.5 meters (Jones et al. 1954). Soils in the coastal marsh region range from soft organic to firm mineral clay. These soils are poorly drained, subject to flooding and used primarily for wildlife habitat, recreation and rangeland (Roy & Midkiff 1988). The coastal marsh region is inhabited mostly by grasses and sedges, and is typically devoid of trees (Jones et al. 1954); however *Sapium sebiferum* and *Zanthoxylum clava-herculis* are common along roadsides. Marshes are either fresh or brackish. In general, marshes become more saline the closer they lie to the coast.

Approximately 9,906 hectares of brackish marsh occur in the Parish. Salinity ranges from 0.42 to 28.08 parts per thousand (ppt) with a mean of 8 ppt (Roy & Midkiff 1988).

Marsh associated with the Calcasieu River may be saline up to a point just north of Lake Charles where the river is dammed. Common brackish-marsh herbaceous plants include: *Spartina alterniflora*, *Distichlis spicata*, *Juncus* sp. and *Scirpus* sp. Approximately 7,020 hectares of fresh-water marsh occurs in the Parish. Common fresh-water herbaceous plants include: *Alternanthera philoxeroides*, *Eichhornia crassipes*, *Typha latifolia*, *Pontederia cordata*, and *Sagittaria* sp.

Swampland.—This region makes up about 4% of the parish. Soils are level, fluid, and loamy or clayey throughout (Roy & Midkiff 1988). Swamps are primarily used for wildlife habitat and for recreation. Major swamplands are associated with the Calcasieu River in the northeastern part of the Parish and with the Sabine River in western Calcasieu. Dominant trees include *Nyssa aquatica*, and *Taxodium distichum*.

Longleaf Pineland.—This region was clear cut around 1900 and now serves primarily as forest range and cropland (Roy & Midkiff 1988). However, a few relatively undisturbed sites within the Parish retain many of their original characteristics and are recognizable communities. We recognize four major communities within this region: hillside seepage bogs, semi-evergreen broadleaf acid seep forests, sodic flatwoods and acid flatwoods.

A single hillside seepage bog occurs in Calcasieu Parish northeast of DeQuincy. This bog appears to be the headwaters of a small unnamed stream. A semi-evergreen broadleaf acid seep forest occurs along the sandy ravine adjacent to the bog. Distinctive herbaceous species in the bog include *Rhynchospora oligantha*, *Sarracenia alata*, and *Utricularia cornuta*.

An area of sodic flatwoods (sensu Smith 1996) occur in the western part of Calcasieu's longleaf pineland vegetation region. These flatwoods are typically saturated during the winter and spring but may become very dry during summer droughts. Herbaceous species are often prairie like and include *Spartina spartinae*, *Chaetopappa asteroides*, *Evolvulus sericeus*, and *Liatris punctata*. The understory woody vegetation is stunted.

A few recognizable acid flatwoods (sensu Smith 1996) occupy the central part of the longleaf pine region within Calcasieu Parish. This community is level to gently rolling with small elevated areas termed "pimple mounds" by Holland et al. (1952). Under natural conditions and frequent fires, these savannahs support a sparse canopy of longleaf pine with few other tree species (Bridges & Orzell 1989). Distinctive herbaceous species in these savannahs include *Stylisma aquatica*, and *Platanthera nivea*. The planting of pine plantations and protecting from fire have nearly eliminated these communities in the Parish.

Bottomland Forests.—This region occurs along the narrow flood plains of the Calcasieu River and its tributaries and along the Sabine River near the Texas border. Soils in this region are level, poorly drained, and loamy throughout (Roy & Midkiff 1988). Dominant trees that occur in bottomland forests include *Liquidambar styraciflua*, *Quercus alba*, *Q. falcata*, *Carya* sp., *Platanus occidentalis*, *Taxodium distichum*, *Pinus taeda*, and *Fraxinus caroliniana*.

APPENDIX 1

Specific and subspecific entries are catalogued within their respective divisions. Angiosperms are further divided into the classes Liliopsida (monocots) and Magnoliopsida (dicots). Taxa are listed alphabetically by family, genus, and species within each category. The format used is species name, authority, reference, and whether the species is considered native or introduced. Taxa that are designated by an asterisk (*) following the author citation are introductions that appear to be naturalized. Authorities are abbreviated according to Brummitt and Powell (1992). A specimen reference includes the name of the collector, the collection number and the herbarium where the vouchered specimen is located. Frequently cited collectors are abbreviated as: A = Allen; B = Brown; C = Cocks; N = Neyland; M = Mayfield; T = Thieret; Th = Thomas. Unless otherwise indicated, specimens from the abbreviated collectors are housed in the following herbaria: A = NLU; B = LSU; C = NO; N = MCN; M = LSU; T = LAF; Th = NLU. One specimen each from Duke University (DUKE), New York Botanical Garden (NY), Missouri Botanical Garden (MO), United States National Herbarium (US) and Vanderbilt University (VDB) are referenced in the annotated list. Following the collection data is an abbreviation for the vegetation region where each species typically occurs: prairie (Pr); fresh marsh (FM); saline marsh (SM); swampland (S); longleaf pineland (Pi); bottomland forests (B). Although not a vegetation region, disturbed areas such as pastures, fallow fields, ditches, urban areas and roadsides are collectively abbreviated (D). Additionally, parasites are designated by (P), lithophytes by (L) and epiphytes by (E). Finally, taxa that have been designated as critically imperiled within Louisiana (S1), imperiled due to their rarity or vulnerability to extirpation (S2), rare and local throughout the state or found locally in a restricted region of the state (S3), reported from Louisiana but without conclusive evidence (SR), or of historical occurrence but no records within the past 20 years (SH) are designated. The Natural Heritage Program of the Louisiana Department of Wildlife and Fisheries determined these rankings.

APPENDIX 1

ANNOTATED CATALOGUE OF SPECIES FOR CALCASIEU PARISH, LOUISIANA

EQUISETOPHYTA

EQUISETACEAE

Equisetum hyemale L. ssp. *affine* (Engelm.) Calder & Taylor, N 564 **B**

FILICOPHYTA

ASPLENIACEAE

Asplenium platyneuron (L.) B.S.P., Maples 96 (MCN) **B**

AZOLLACEAE

Azolla caroliniana Willd., N 728, **FM, S**

BLECHNACEAE

Woodwardia areolata (L.) T. Moore, N 297 **B, S**

Woodwardia virginica (L.) Sm., N 1293 **Pi**

DENNSTAEDTIACEAE

Pteridium aquilinum (L.) Kuhn var. *pseudocaudatum* (Clute) Heller, Maples 97 (MCN) **B, D, Pi**

DRYOPTERIDACEAE

Athyrium filix-femina (L.) Roth ssp. *asplenioides* (Michx.) Hulten, Maples 209 (MCN) **B**
Onoclea sensibilis L., Maples 296 (MCN) **B**
Polystichum acrostichoides (Michx.) Schott, N 1133 **B**

LYGODIACEAE

Lygodium japonicum (Thunb.) Sw.,* N 268 **B, FM, D**

OPHIOGLOSSACEAE

Botrychium biternatum (Savigny) L. Underwood,
Maples 106 (MCN) **B**

Botrychium dissectum Spreng., N 1563 **B**

Ophioglossum crotalophoroides Walt., N 1215 **B, D**

Ophioglossum nudicaule L.f., N 1149 **D**

Ophioglossum petiolatum L., Parker 533 (NLU) **B**

OSMUNDACEAE

Osmunda cinnamomea L., N 1245 **Pi**

Osmunda regalis L. var. *spectabilis* (Willd.) A. Gray,
N 294 **B, FM**

POLYPODIACEAE

Pleopeltis polypodioides (L.) E. G. Andrews &
Windham, Maples 95 (MCN) **E**

PTERIDACEAE

Pteris vittata L., N 1415 **L**

SALVINACEAE

Salvinia minima Baker, N 261 **FM**

THELYPTERIDACEAE

Macrothelypteris torresiana (Gaudich.) Ching,*
Maples 213 (MCN) **B**

Phegopteris hexagonoptera (Michx.) Fée, N 384 **B**

Thelypteris dentata (Forssk.) E.P. St. John, N 1146
B

Thelypteris hispidula (Dcne) Reed var. *versicolor*
(R. St. John) Lellinger, N 269 **B, D, FM, S**

Thelypteris kunthii (Desv.) Morton, T 13387 **B**

LYCOPODIOPHYTA

ISOETACEAE

Isoetes melanopoda Gay & Durieu, Brooks &
Maples 817 (MCN) **D**

LYCOPODIACEAE

Lycopodiella alopecuroides (L.) Cranfill, N 793 **Pi**

Lycopodiella appressa (Chapm.) Cranfill, N 792 **Pi**

Pseudolycopodiella caroliniana (L.) Holub, N 1081
Pi

SELAGINELLACEAE

Selaginella apoda (L.) Spring, N 499 **D, Pi**

CONIFEROPHYTA

CUPRESSACEAE

Juniperus virginiana L. var. *virginiana*, N 512 **B, Pr**

Taxodium distichum (L.) Rich., N 607 **FM, BM, S**

PINACEAE

Pinus echinata P. Mill., Miller 5 (MCN) **Pi, Pr**

Pinus elliottii Engelm.,* Miller 6 (MCN) **D, Pi, Pr**

Pinus palustris P. Mill., N 791 **Pi**

Pinus taeda L., N 476 **D, Pi, S**

MAGNOLIOPHYTA
(Magnoliopsida)

ACANTHACEAE

Hygrophila lacustris (Schlecht. & Cham.) Nees, N
1402 **S**

Justicia ovata (Walt.) Lindau, N 641 **B, S**

Ruellia caroliniensis (Walt.) Steud., N 1353 **B, D**

Ruellia humilis Nutt., N 1334 **D, Pr**,

Ruellia pedunculata Torr., A 15122 **D, Pi, Pr, D**

ACERACEAE

Acer negundo L., N 1731 **D**

Acer rubrum var. *drummondii* (Hook. & Arn. ex
Nutt.) Sarg., N 467 **B, S**

Acer rubrum L. var. *rubrum*, N 1623 **Pi**

Acer saccharinum L.,* N 1386 **D**

AMARANTHACEAE

Alternanthera philoxeroides (Mart.) Griseb.,* N
1292 **BM, D, FM, S**

Amaranthus albus L., Th 66904 **D**

Amaranthus blitum L.,* T 31617 **D**

Amaranthus cannabinus (L.) Sauer, N 1003 **BM, FM**

Amaranthus spinosus L., N 812 **D, Pr**

Amaranthus viridis L., N 1127 **BM, FM, D**

Froelichia gracilis (Hook.) Moq., Pias 4499 (LSU)
D, Pi

ANACARDIACEAE

Rhus copallina L., N 609 **D, P**

Toxicodendron radicans (L.) Kuntze, N 1426 **B, D, FM, Pi, Pr**

ANNONACEAE

Asimina parviflora (Michx.) Dunal, T 29432 **B**

APIACEAE

Bowlesia incana Ruiz & Pav., John s.n. (NLU) **D**

Centella erecta (L. f.) Fern., N 666 **D, Pi, Pr**

Chaerophyllum tainturieri Hook., N 448 **D, Pr**

Ciclospermum leptophyllum (Pers.) Sprague ex
Britton & Wilson,* N 530 **B, D, FM**

Cicuta maculata L. var. *maculata*, N 267 **D, BM, FM**

Cynosciadium digitatum DC., A 16406 (LAF) **D, Pr**

Daucus carota L.,* N 1373 **D**

Eryngium integrifolium Walt., N 952 **Pi, Pr**

Eryngium prostratum Nutt. ex DC., N 655 **D, Pi**

Eryngium yuccifolium Michx., N 736 **Pi, Pr**

Hydrocotyle bonariensis Comm. ex Lam., N 1352
BM, D

Hydrocotyle umbellata L., N 1360 **D, S**

Hydrocotyle verticillata Thunb., N 706 **D, S**

Limnoscium pinnatum (DC.) Math. &
Constance, N 538 **D, Pr**

Limnoscium pumilum (Engelm. & A. Gray)
Math. & Constance, A 16406 **D, Pr**
Oxypolis filiformis (Walt.) Britton, N 784 **Pi**
Ptilimnium capillaceum (Michx.) Raf., N 652 **D, BM, FM, S**
Ptilimnium costatum (Ell.) Raf., T 27955 **B, Pi, S**
Sanicula canadensis L., N 1320 **B**
Spermolepis inermis (Nutt. ex DC.) Math. &
Constance, Th 14386 **D, Pr**
Trepocarpus aethusae Nutt. ex DC., Th 14422 **B, Pr**
Zizia aurea (L.) K. Koch, N 1750 **B**

APOCYNACEAE

Amsonia ludoviciana Vail, Gilmore & Smith 3543
(LSU) **Pr** (S3)
Amsonia tabernaemontana Walt., N 1218 **D, Pi, Pr**
Amsonia repens Shinnners, Misgreth s.n. (NLU) **Pi**
Apocynum cannabinum L., N 822 **D, Pr**
Trachelospermum difforme (Walt.) Cory, N 658 **B**

AQUIFOLIACEAE

Ilex ambigua (Michx.) Torr., N & M 1581 (MCN) **Pi**
Ilex coriacea (Pursh) Chapm., N 1501 **Pi**
Ilex decidua Walt., N 477 **B, Pr**
Ilex opaca Aiton, N 759 **B, Pr, S**
Ilex vomitoria Aiton, N 328 **B, Pr, S**

ARALIACEAE

Aralia spinosa L., N 892 **B, Pr**

ARISTOLOCHIACEAE

Aristolochia reticulata Jacq., T 29428 **B**
Aristolochia serpentaria L., N 1418 **Pi**

ASCLEPIADACEAE

Asclepias hirtella (Pennell) Woods., T 67028 **D**
Asclepias lanceolata Walt., N 713 **Pi**
Asclepias longifolia Michx., N 677 **Pi**
Asclepias obovata Ell., N 280 **Pi**
Asclepias perennis Walt., N 262 **S**
Asclepias variegata L., N 1763 **Pi**
Asclepias viridis Walt., N 543 **D, Pi, Pr**
Matelea gonocarpus (Walt.) Shinnners, N 688 **B**

ASTERACEAE

Acmella oppositifolia var. *repens* (Walt.) R.K.
Jansen, N 1048 **D**
Ambrosia artemisiifolia L., N 1021 **BM, D, Pr**
Ambrosia psilostachya DC., N 1422 **D, Pr**
Ambrosia trifida L., N 380 **D, Pr**
Arnoglossum ovatum (Walt.) H. Robins., N 291 **D, Pi, Pr**
Aster dumosus L., N 1571 **Pi**
Aster fragilis Willd., M & N 2627 (MCN) **B**
Aster lateriflorus (L.) Britt., M & N 2628 (LSU) **Pr**
Aster patens Aiton, McWilliams 244 (LAF) **D, Pr**

Aster praealtus Poir., N 714 **D, Pi**
Aster subulatus var. *ligulatus* Shinnners, N 435 **B, D, Pi**
Aster tenuifolius L., N 1422 **BM**
Baccharis halimifolia L., N 389 **BM, D, Pr**
Bidens aristosa (Michx.) Britton, N 385 **D, FM, Pr, S**
Bidens bipinnata L., N 1038 **D, Pr**
Bidens frondosa L., N 1102 **D, FM, S**
Bidens laevis (L.) B.S.P., N 1634 **D, FM, S**
Bigelowia nuttallii L.C. Anderson, N 994 **Pi**
Boltonia asteroides (L.) L'Hér., N 1126 **D, FM, Pi**
Boltonia diffusa Ell., N 937 **BM, Pr**
Borrichia frutescens (L.) DC., N 693 **BM**
Calyptocarpus vialis Less., * N 635 **D, Pr**
Chaetopappa asteroides (Nutt.) DC., N 1513 **Pi**
(S2?)
Chaptalia tomentosa Vent., N 1194 **Pi**
Centaurea biebersteinii DC., * N 1771 **D**
Chrysopsis mariana L., N & M 1593 (MCN) **Pi**
Chrysopsis pilosa Nutt., N 942 **Pi**
Cirsium horridulum Michx., N 1255 **D, Pi, Pr**
Conoclinium coelestinum (L.) DC., N 263 **D, Pi, Pr**
Conyza bonariensis (L.) Cronq., * Th 66922 **D, Pr**
Conyza canadensis (L.) Cronq., N 1458 **D, Pr**
Coreopsis lanceolata L., N 1221 **D, Pi, Pr**
Coreopsis linifolia Nutt., N 1633 **Pi**
Coreopsis tinctoria Nutt. var. *tinctoria*, N 790 **D, Pr**
Dracopis amplexicaulis (Vahl) Cass., N 1390 **D**
Echinacea sanguinea Nutt., N 651 **D, Pi**
Eclipta prostrata (L.) L., N 698 **D, FM, S**
Elephantopus carolinianus Raeusch., N 1105 **B**
Elephantopus nudatus A. Gray, N 1510 **B**
Elephantopus tomentosus L., N 274 **B**
Erechtites hieraciifolia (L.) Raf. ex DC., N 1139 **D, B**
Erigeron philadelphicus L., N 1135 **D, Pr**
Erigeron strigosus Muhl. ex Willd., N 1773 **D, Pr**
Erigeron tenuis Torr. & A. Gray, N 546 **D, Pr**
Eupatorium altissimum L., N 1125 **D, Pi, Pr**
Eupatorium capillifolium (Lam.) Small, N 391 **D, Pr**
Eupatorium compositifolium Walt., N 1528 **D, Pr**
Eupatorium glaucescens Ell., N 1491 **Pi**
Eupatorium hyssopifolium L., A 16144 (LAF) **D, Pi**
Eupatorium leucolepis (DC.) Torr. & A. Gray, N 973 **Pi**
Eupatorium mohrii Greene, A 11133 (LAF) **Pi**
Eupatorium perfoliatum L., N 899 **D, B**
Eupatorium rotundifolium L., N 737 **D, Pi**
Eupatorium semiserratum DC., A 16120 (LAF) **Pi**
Eupatorium serotinum Michx., N 951 **BM, FM**
Eurybia hemisphericus (Alexander) Nesom, N 1023 **Pi**
Euthamia gymnospermoides Greene, Th 98160 **D, Pr**

- Euthamia leptcephala* (Torr. & A. Gray) Greene, N 1045 **BM, Pr**
Gaillardia aestivalis (Walt.) H.F.L. Rock, N 718 **Pi**
Gaillardia pulchella Foug., N 1225 **D**
Gamochaeta pensylvanica (Willd.) Cabrera, N & M 1713 (MCN) **D**
Gamochaeta purpurea L., N 1367 **D, Pr**
Grindelia papposa Nesom & Suh Pias & Thomas 4515 (LSU) **Pr**
Gymnostyles anthemifolia Juss.,* T 30610 **D**
Helenium amarum (Raf.) H.F.L. Rock, N 1389 **D, Pr**
Helenium drummondii H.F.L. Rock, N 577 **Pi**
Helenium flexuosum Raf., N 660 **B, D, S**
Helenium vernale Walt., Gilmore 3589 (LSU) **Pi**
Helianthus angustifolius L., N 1119 **Pi**
Helianthus annuus L., N 823 **D, Pr**
Helianthus debilis ssp. *cucumerifolius* (Torr. & A. Gray) Heiser Correll & Correll 9625 (LSU) **Pi**
Helianthus mollis Lam., N 935 **D, Pi, Pr**
Heterotheca subaxillaris (Lam.) Britt. & Rusby, N 1545 **D, Pr**
Hieracium longipilum Torr., C s.n. **Pi**
Hymenopappus artemisiifolius DC., N 1276 **D, Pi**
Hypochaeris microcephala (Sch.-Bip.) Cabrera,* N 1263 **D**
Hypochaeris radicata L.,* N & M 1722 (MCN) **D**
Ionactis linariifolius (L.) Greene, N & M 1606 (MCN) **Pi**
Iva angustifolia DC., N 1120 **D**
Iva annua L., N 1090 **D**
Iva frutescens L., N 1469 **BM**
Krigia cespitosa (Raf.) Chambers, N 1753 **D**
Krigia dandelion (L.) Nutt., Hester s.n. (LAF) **D**
Lactuca canadensis L., N 1446 **D, Pr**
Lactuca floridana (L.) Gaertn., N 372 **D, Pr**
Liatris acidota Engelm. & A. Gray, N 295 **Pi**
Liatris aspera Michx., N 1515 **Pi**
Liatris elegans (Walt.) Michx., N 919 **Pi**
Liatris punctata Hook., N 1566 **Pi** (S1?)
Liatris pycnostachya Michx., N 936 **Pi**
Liatris squarrosa (L.) Michx., N 920 **Pi**
Marshallia caespitosa Nutt. ex DC., N 1280 **Pi**
Marshallia graminifolia var. *cynanthera* (Ell.) Beadle & F.E. Boynt., N 287 **Pi**
Mikania cordifolia (L. f.) Willd., Th 23840 **D, FM, S**
Mikania scandens (L.) Willd., N 371 **D, FM, S**
Oligoneuron nitidum (Torr. & A. Gray) Small, N 857 **Pr**
Oligoneuron rigidum var. *glabratum* (E.L. Braun) Nesom, C s.n. **D**
Parthenium hysterophorus L.,* N 1529 **D**
Pityopsis graminifolia (Michx.) Nutt., N 855 **Pi**
Pluchea camphorata (L.) DC., N 375 **BM, D, FM, S**
Pluchea foetida (L.) DC., N 804 **D, FM, Pi, S**
Pluchea odorata (L.) Cass., N 1002 **BM, D, FM, Pr, S**
Pluchea rosea Godfrey, N 292 **BM, D, FM, Pi**
Pseudognaphalium obtusifolium (L.) ssp. *obtusifolium* Hilliard & Burt, N 1035 **Pi**
Pterocaulon virgatum (L.) DC., T 20612 **Pr** (S1)
Pyrrhopappus carolinianus (Walt.) DC., Costanza 67 (MCN) **D**
Ratibida columnifera (Nutt.) Woot. & Standl., T 28897 **Pr**
Rudbeckia grandiflora (D. Don) J.F. Gmel. ex DC., Robichaux 4 (MCN) **D, Pi**
Rudbeckia hirta L., N 1330 **D**
Rudbeckia subtomentosa Pursh, N 1500 **B**
Rudbeckia texana (Purdue) Cox & Urbatsch, N 676 **D**
Senecio glabellus Poir., N 1181 **D, Pr, S**
Silphium gracile A. Gray, N 421 **D, Pi, Pr**
Silphium radula Nutt., C s.n. **Pr**
Silphium integrifolium Michx., Th 98155 **D, Pr**
Silphium laciniatum L., T 31489 **Pr**
Smallanthus uvedalius (L.) McKenzie ex Small, N 927 **B**
Solidago caesia L., N 1556 **Pi**
Solidago canadensis var. *scabra* Torr. & A. Gray, N 1580 **D, Pi, Pr**
Solidago odora Aiton, N 1544 **D, Pi**
Solidago rugosa P. Mill., N & M 1599 (MCN) **D, Pr**
Solidago sempervirens var. *mexicana* (L.) Fern., N 1363 **BM, FM**
Solidago stricta Aiton Urbatsch 2090 (LSU) **BM, FM, Pi**
Solidago tortifolia Ell., N 1543 **Pi**
Soliva mutisii Kunth,* N 1758 **D**
Soliva sessilis Ruiz & Pav.,* N 451 **D**
Sonchus asper (L.) Hill,* N 518 **D**
Sonchus oleraceus L.,* N 518 **D**
Symphyotrichum pratensis (Raf.) Nesom, N & M 1607 (MCN) **Pi**
Taraxacum officinale G.H. Weber ex Wigg.,* N 1136 **D**
Verbesina virginica L., N 1068 **B, D**
Vernonia gigantea (Walt.) Trel. ex Branner & Coville ssp. *gigantea*, N 1463 **Pi**
Vernonia missurica Raf., N 1083 **Pi, Pr**
Vernonia texana (A. Gray) Small, N 1430 **Pi**
Youngia japonica (L.) DC.,* N 433 **D**
- BERBERIDACEAE**
Podophyllum peltatum L., N 1683 **B**
- BETULACEAE**
Betula nigra L., N 1099 **B**
Carpinus caroliniana Walt., N 464 **B**
Ostrya virginiana (P. Mill.) K. Koch, N 758 **B**

BIGNONIACEAE

- Bignonia capreolata* L., N 1203 **B, Pi, S**
Campsis radicans (L.) Seem. ex Bureau, N 279 **B, D, Pi, Pr**
Catalpa bignonioides Walt., N 1274 **D, Pr**

BORAGINACEAE

- Heliotropium curassavicum* L., N 1307 **BM, FM**
Heliotropium indicum L.,* N 993 **D, Pr**
Heliotropium procumbens P. Mill., C s.n. **D**
Myosotis macrosperma Engelm., N 1233 **B, D, S**

BRASSICACEAE

- Capsella bursa-pastoris* (L.) Medik.,* N 1152 **D**
Cardamine bulbosa (Schreb. ex Muhl.) B.S.P., N 1179 **B**
Cardamine debilis D. Don, N 1212 **D**
Cardamine pensylvanica Muhl. ex Willd., N 441 **D, Pr, S**
Coronopus didymus (L.) Sm.,* N 1171 **D, Pr**
Lepidium virginicum L., N 1173 **D, Pr**
Raphanus raphanistrum L.,* T 28864 **D**
Rorippa sessiliflora (Nutt.) Hitchc., N 1205 **D, Pr**
Rorippa teres (Michx.) Stuckey, N 1177 **D, Pr, S**

BUDDLEJACEAE

- Polypremum procumbens* L., N 707 **Pi**

CABOMBACEAE

- Brasenia schreberi* J.F. Gmel., N 870 **S**
Cabomba caroliniana A. Gray, N 1392 **S**

CACTACEAE

- Opuntia humifusa* (Raf.) Raf. var. *humifusa*, N 1791 **D**

CALLITRICHACEAE

- Callitriche heterophylla* Pursh, N 1168 **D, S**
Callitriche peploides Nutt., N 1159 **D, S**

CAMPANULACEAE

- Lobelia appendiculata* A. DC., N 1298 **D, Pi**
Lobelia cardinalis L., N 374 **B, S**
Lobelia flaccidifolia Small, N 576 **Pi**
Lobelia puberula Michx. var. *puberula*, N 1122 **D, Pi**
Lobelia puberula var. *pauciflora* Bush, N 1570 **Pi**
Triodanis perfoliata var. *biflora* (Ruiz & Pavon) Bradley, N 1206 **D, Pr**
Triodanis perfoliata (L.) Nieuwl. var. *perfoliata*, N 502 **D, Pr**

CAPRIFOLIACEAE

- Lonicera japonica* Thunb.,* N 347 **B, D, Pi, Pr, FM, S**
Lonicera sempervirens L., N 650 **D, Pi, B**
Sambucus canadensis L., N 613 **D, FM, Pr, S**
Viburnum dentatum L., N 275 **B, D, S**
Viburnum nudum L., N 1498 **B**

CARYOPHYLLACEAE

- Cerastium glomeratum* Thuill.,* N 438 **D, Pr**
Sagina decumbens (Ell.) Torr. & A. Gray, N 437 **D, Pr**
Silene antirrhina L., N 1209 **B, D**
Spergularia salina (L.) Griseb., N 1305 **BM**
Stellaria media (L.) Cirillo,* N 474 **D, Pr**

CELASTRACEAE

- Euonymus americana* L., N 416 **B**

CERATOPHYLLACEAE

- Ceratophyllum demersum* L., N 704 **BM, FM**

CHENOPODIACEAE

- Chenopodium ambrosioides* L.,* T 29422 **D**
Salicornia bigelovii Torr., Montz 2296 (LAF) **BM**
Suaeda linearis (Ell.) Moq., N 1433 **BM**

CISTACEAE

- Lechea mucronata* Raf., T 31636 **D, Pi**
Lechea pulchella Raf., N & Komo 1782 **Pi**

CLUSIACEAE

- Hypericum brachyphyllum* (Spach) Steud., N 1404 **D, Pi**
Hypericum cistifolium Lam., Th 89297 **FM, Pi**
Hypericum crux-andreae (L.) Crantz., N 946 **D, FM, Pi, S**
Hypericum densiflorum Pursh, N 1403 **B, D, Pi, Pr**
Hypericum drummondii (Grev. & Hook.) Torr. & A. Gray, N 1473 **B, Pi**
Hypericum hypericoides (L.) Crantz, N 329 **D, B, Pi, Pr**
Hypericum mutilum L., N 1075 **B**
Hypericum setosum L., N 286 **Pi**
Triadenum tubulosum Walt., N 1111 **S**
Triadenum walteri J. G. Gmel., N 1112 **S**

CONVOLVULACEAE

- Calystegia sepium* (L.) R. Br.,* N 1443 **BM, FM**
Dichondra carolinensis Michx., N 452 **D**
Evolvulus sericeus Sw., N 1761 **Pi**
Ipomoea coccinea L.,* N 840 **D, S**
Ipomoea cordatotriloba Dennst. var. *cordatotriloba*, N 376 **D, Pr, S**
Ipomoea lacunosa L., N 1492 **B, D, S**
Ipomoea pandurata (L.) G. Mey., N 781 **B, D**
Ipomoea purpurea (L.) Roth,* N 951 **D**
Ipomoea quamoclit L.,* N 1523 **D**
Ipomoea sagittata Cav., N 679 **BM, FM**
Ipomoea wrightii A. Gray,* N 847 **D, Pr**
Jacquemontia tamnifolia (L.) Griesb., N 390 **D**
Stylisma aquatica (Walt.) Raf., N 1382 **Pi**

CORNACEAE

- Cornus drummondii* C.A. Mey., N 1314 **B**
Cornus florida L., Costanza 69 (MCN) **B, S**
Cornus foemina P. Mill., N & M 1602 (MCN) **B, S**

CRASSULACEAE*Penthorum sedoides* L., N 1100 **B, D, S****CURCURBITACEAE***Cucumis melo* L., * N 996 **D***Melothria pendula* L., N 270 **B, D, FM, BM, S****CUSCUTACEAE***Cuscuta cuspidata* Engelm., N 1482 **P***Cuscuta glomerata* Choisy, N 1795 **P***Cuscuta indecora* Choisy, N 689 **P***Cuscuta pentagona* Engelm. var. *pentagona*, N 1401 **P****CYRILLACEAE***Cyrilla racemiflora* L., N 856 **B, Pi****DROSERACEAE***Drosera brevifolia* Pursh, N 469 **D, Pi****EBENACEAE***Diospyros virginiana* L., N 1315 **B, Pi****ELATINACEAE***Elatine triandra* Schkuhr, Givens 2788 (LSU) **D****ERICACEAE***Monotropa uniflora* L., Brooks 343 (MCN) **B***Rhododendron canescens* (Michx.) Sweet, N 659 **B, S***Vaccinium arboreum* Marshall, N 1237 **B***Vaccinium stamineum* L., N 494 **B, S***Vaccinium elliottii* Chapm., N 1189 **B, S***Vaccinium virgatum* Aiton, T 16966 **Pi****EUPHORBIACEAE***Acalypha gracilens* A. Gray, T 29398 **D, Pr***Acalypha monococca* (Engelm. ex A. Gray) L., N 1612 **Pi***Acalypha ostryifolia* Riddell, N 848 **D***Acalypha rhomboidea* Raf., N 962 **D***Acalypha virginica* L., N 1629 **D, Pi***Caperonia palustris* A. St.-Hil., N 789 **D, Pr***Chamaesyce hypericifolia* (L.) Millsp., * Walker s.n. (MCN) **D***Chamaesyce hyssopifolia* (L.) Small, * N 825 **D***Chamaesyce maculata* (L.) Small, N 968 **D***Chamaesyce nutans* (Lag.) Small, N 801 **D***Chamaesyce serpens* (Kunth) Small, N 1432 **D***Cnidoscolus texanus* (Muell. Arg.) Small, N 1272 **D***Croton capitatus* Michx., N 733 **D***Croton glandulosus* L., N 963 **D, Pr***Croton willdenowii* G.L. Webster, N 1779 **D***Euphorbia corollata* L., N 305 **Pi, Pr***Euphorbia dentata* Michx., N 1046 **D***Euphorbia heterophylla* L., * N 1011 **D***Euphorbia meganoesos* Featherman, N 686 **D***Euphorbia texana* Boiss., N & M 1716 (MCN) **D***Phyllanthus polygonoides* Nutt., Th 66994 **D***Phyllanthus urinaria* L., * N 915 **D***Sapium sebiferum* (L.) Roxb., * N 350 **B, BM, D, FM, Pr***Sebastiania fruticosa* (Bartr.) Fern., N 691 **S***Stillingia sylvatica* Garden ex L., N 1846 **Pi***Tragia smallii* Shinnars, Th 66995 **Pi***Tragia urticifolia* Michx., N & M 1591 (MCN) **Pi***Vernicia fordii* (Hemsl.) Airy-Shaw, * N 1220 **B****FABACEAE***Acacia farnesiana* (L.) Willd., N 620 **BM, FM, S***Aeschynomene indica* L., N 849 **D, Pr***Albizia julibrissin* Durz., * N 709 **D***Amorpha fruticosa* L., N 1377 **D, Pr***Apios americana* Medik., N 1507 **B***Astragalus distortus* Torr. & A. Gray, C s.n. **Pi***Baptisia alba* var. *macrophylla* (Larisey) Isely, N 608 **D, Pr***Baptisia bracteata* var. *laevicaulis* (A. Gray ex Canby) Isely, N 700 **Pi***Baptisia sphaerocarpa* Nutt. Lasseigne 1417 (LAF) **Pi***Centrosema virginianum* (L.) Benth., N 860 **D, Pi, Pr***Cercis canadensis* L., N 461 **B, S***Chamaecrista fasciculata* (Michx.) Greene, N 340 **D, Pr***Chamaecrista nictitans* (L.) Moench ssp. *nictitans*, N 918 **D***Crotalaria sagittalis* L. Lasseigne 1579 (LAF) **Pi***Dalea candida* Willd., N 1775 **Pr***Dalea purpurea* Vent., T 31493 **Pi***Desmanthus illinoensis* (Michx.) MacM. ex B. L. Robins. & Fern., N 784 **D***Desmodium ciliare* (Willd.) DC., C s.n. **D, Pi***Desmodium glabellum* (Michx.) DC., N 983 **B***Desmodium paniculatum* (L.) DC., N 377 **B***Dioclea multiflora* (Torr. & A. Gray) Mohr, N 1448 **B***Erythrina herbacea* L., N 656 **B, D, Pi***Galactia volubilis* (L.) Britt., N 931 **D, S***Gleditsia aquatica* Marshall, N & Komo 1737 (MCN) **B, S***Gleditsia triacanthos* L., N & Komo 1635 (MCN) **S***Glottidium vesicarium* (Jacq.) Harper, N 1027 **D, BM, FM***Kummerowia striata* (Thunb.) Schindl., * Lasseigne 1434 (LAF) **D, Pi***Lespedeza cuneata* (Dum-Cours.) G. Don, * Lasseigne 1597 (LAF) **D***Lupinus texensis* Hook., * N 1223 **D***Medicago arabica* (L.) Huds., * N & Komo 1670 (MCN) **D***Medicago lupulina* L., * N 442 **D**

Medicago minima (L.) L.,* *Conrad* 1 (MCN) **D**
Medicago polymorpha L.,* N 1174 **D**
Melilotus officinalis (L.) Lam.,* *Lasseigne* 1564 (LAF) **D**
Melilotus indicus (L.) All.,* N 509 **D**
Mimosa hystericina (Small ex Britton & Rose) B.L. Turner, N 1344 **D, Pi, Pr**
Mimosa microphylla Dry., *Zebryk* 2252 (NLU) **Pi**
Mimosa nuttallii B.L. Turner, *Th* 129572 **D, Pi**
Mimosa strigillosa Torr. & A. Gray, N 752 **D, Pr**
Neptunia lutea (Leavenworth) Benth., N 1348 **D, Pr, Pi**
Orbexilum pedunculatum (P. Mill.) Rydb. var. *pedunculatum*, B 13531 (NLU) **D, Pi, Pr**
Orbexilum simplex (Torr. & A. Gray) Rydb., N 1343 **Pi**
Parkinsonia aculeata L.,* N 571 **D**
Pueraria montana (Lour.) Merr. var. *lobata* (Willd.) Maesen & Almeida,* N 710 **D**
Rhynchosia latifolia (Nutt.) Torr. & A. Gray, *Chevalier* 16 (MCN) **Pi**
Rhynchosia minima (L.) DC., N 1026 **D, Pi**
Rhynchosia reniformis (Pursh) DC., *Ware s.n.* (NLU) **D, Pi**
Rhynchosia tomentosa (L.) Hook. & Arn., *Pias* 4520 (LSU) **Pi**
Robinia pseudoacacia L.,* N 511 **D**
Senna obtusifolia (L.) Irwin & Barneby, N 753 **D**
Sesbania drummondii (Rydb.) Cory, N 618 **D, BM, FM**
Sesbania herbacea (P. Mill.) McVaugh, N 830 **D, BM, FM**
Sesbania punicea (Cav.) Benth.,* *Lasseigne* 1564 (LAF) **D, BM, FM**
Strophostyles helvula (L.) Ell., N 928 **D, Pr**
Strophostyles umbellata (Muhl. ex Willd.) Britton, N 1540 **D, Pr**
Stylosanthes biflora (L.) B.S.P., N 719 **Pi, Pr**
Tephrosia onobrychoides Nutt., N 1396 **Pi**
Trifolium campestre Sturm, *Walker s.n.* (MCN) **D**
Trifolium dubium Sibth.,* *Milsom* 3 (MCN) **D**
Trifolium incarnatum L.,* N 1685 **D**
Trifolium pratense L.,* N 673 **D**
Trifolium reflexum L., *C s.n.* **Pr**
Trifolium repens L.,* N 449 **D, Pr**
Trifolium resupinatum L.,* N 1359 **D, Pr**
Vicia ludoviciana Nutt., N 446 **D, Pi**
Vigna luteola (Jacq.) Benth., N 997 **D, BM**
Wisteria floribunda (Willd.) DC.,* N 1232 **D**
Wisteria frutescens (L.) Poir., N 1740 **B**

FAGACEAE

Castanea pumila P. Mill., N & Komo 1617 (MCN) **Pi**
Fagus grandifolia Ehrh., N 458 **B**

Quercus acutissima Carruthers,* N 1785 **D**
Quercus alba L., N 1562 **B**
Quercus falcata Michx., N 646 **B, D, Pi**
Quercus hemisphaerica Bartr., T 28035 **D, Pi**
Quercus incana Bartr., T 25652 **Pi**
Quercus laurifolia Michx., N 1082 **B, S**
Quercus lyrata Walt., N 667 **B, S**
Quercus margarettiae Ashe ex Small, M 2920 **Pi**
Quercus marilandica Muench, N 666 **D, Pi**
Quercus michauxii Nutt., N 325 **B, Pi**
Quercus nigra L., N 507 **B, D, Pi, Pr, S**
Quercus pagoda Raf., N 1142 **B**
Quercus phellos L., N 668 **Pi**
Quercus shumardii Buckl., N & M 1717 **B**
Quercus similis Ashe, T 33547 **Pi**
Quercus stellata Wangenh., N 1083 **Pi**
Quercus texana Buckley, N & Kitt 1704 **D, Pi**
Quercus virginiana P. Mill., N 475 **B, D, Pi, Pr**

GENTIANACEAE

Centaurium pulchellum (Sw.) Druce,* N 1301 **D, Pr**
Eustoma exaltatum (L.) Salisb. ex G. Don., N 786 **D, BM, FM**
Sabatia calycina (Lam.) Heller, N 1104 **D, Pi, S**
Sabatia campanulata (L.) Torr., N 1429 **D, Pi**
Sabatia campestris Nutt., N 1311 **D, FM, Pi, Pr**
Sabatia dodecandra L. (B.S.P.) var. *foliosa* (Fern.) Wilbur, *Barr* 102 (LSU) **Pi**
Sabatia gentianoides Ell., N 739 **Pi**

GERANIACEAE

Geranium carolinianum L., N 445 **D, Pr**

GROSSULARIACEAE

Itea virginica L., N 491 **S**

HALORAGACEAE

Myriophyllum aquaticum (Vell.) Verdc.,* N 336 **D, FM**
Myriophyllum heterophyllum Michx., N 721 **D, FM, S**
Myriophyllum pinnatum (Walt.) B.S.P., Coe 8 (MCN) **D, FM, S**
Myriophyllum spicatum L.,* N 1124 **D, FM, BM**
Proserpinaca palustris L., N 623 **D, FM, S**
Proserpinaca pectinata Lam., N 1249 **D, Pi, S**

HAMAMELIDACEAE

Hamamelis virginiana L., N 323 **B**
Liquidambar styraciflua L., N 1214 **B, D, Pi, Pr**

HIPPOCASTANACEAE

Aesculus pavia L., N 1221 **B**

HYDROPHYLLACEAE

Hydrolea ovata Nutt. ex Choisy, N 300 **D, Pi, Pr**
Nemophila aphylla (L.) Brummitt, N 519 **D, B**
Phacelia hirsuta Nutt., N 480 **D, Pr**

JUGLANDACEAE

- Carya alba* (L.) Nutt. ex Ell., N 1084 **Pi**
Carya aquatica (Michx. f.) Nutt., N 1042 **B**
Carya cordiformis (Wangenh.) K. Koch, N & M 1628 (MCN) **B**
Carya glabra (P. Mill.) Sweet, N 1085 **B, Pi**
Carya illinoensis (Wangenh.) K. Koch, N 1128 **D**
Carya ovata (P. Mill.) K. Koch, N 1061 **Pi**
Juglans nigra L.,* N 1512 **D, Pi**

LAMIACEAE

- Hedeoma hispida* Pursh, N 1326 **D, Pr**
Hyptis alata (Raf.) Shinnars, N 738 **D, Pi, Pr**
Lamium amplexicaule L.,* Costanza 43 (MCN) **D**
Lycopus rubellus Moench, N 1079 **D, FM**
Lycopus virginicus L., N 1509 **Pi**
Monarda lindheimeri A. Gray, Correll & Correll 9572 (LSU) **Pi**
Monarda punctata L., N 841 **D, Pr**
Perilla frutescens (L.) Britt.,* N 1268 **D**
Physostegia digitalis Small, N 750 **D, Pr**
Physostegia longisepala Cantino, N 643 **D, Pi** (S2)
Physostegia virginiana (L.) Benth. ssp. *praemorsa* (Shinnars) Cantino, N 1097 **D, Pi, S**
Prunella vulgaris L., N 1368 **D**
Pycnanthemum albescens Torr. & A. Gray, N 903 **D, Pi, Pr**
Pycnanthemum tenuifolium Schrad., N 678 **D, Pi**
Salvia azurea Lam., N 1050 **D, Pr**
Salvia coccinea Buchoz ex Etlinger,* Coto 45 (MCN) **D**
Salvia lyrata L., Costanza 9 (MCN) **D, Pi**
Scutellaria cardiophylla Engelm. & A. Gray, T 23535 **Pi**
Scutellaria drummondii Benth., Th 66861 **Pi**
Scutellaria integrifolia L., N 578 **B, Pi**
Stachys crenata Raf., N 1176 **D**
Stachys floridana Shuttlew. ex Benth., N 1217 **D**
Teucrium canadensis L., N 1844 **D**
Teucrium cubense Jacq., N 1302 **D**
Trichostema dichotomum L., N 1537 **Pi**

LAURACEAE

- Cinnamomum camphora* (L.) Presl,* N 606 **B, D, Pr**
Persea palustris (Raf.) Sarg., N 904 **B, S**
Sassafras albidum (Nutt.) Nees., N 1187 **D, Pi, Pr**

LENTIBULARIACEAE

- Pinguicula pumila* Michx., N 1253 **Pi**
Utricularia cornuta Michx., N 1746 **Pi**
Utricularia foliosa L., N 1464 **FM**
Utricularia gibba L., N 654 **D, S**
Utricularia inflata Walt., N 473 **FM, S**
Utricularia juncea Vahl, N 1508 **Pi**
Utricularia macrorhiza LeConte, Curry 1479 (LSU) **FM, S**

Utricularia radiata Small, N 495 **S**

Utricularia subulata L., N 1217 **Pi**

LINACEAE

- Linum medium* (Planch.) Britt. var. *texanum* (Planch.) Fern., N 619 **D, Pr**
Linum striatum Walt., N 1774 **D, Pi**

LOGANIACEAE

- Gelsemium sempervirens* (L.) J. St.-Hil., N & Komo 1675 (MCN) **B, D, Pi**
Mitreola petiolata (J. F. Gmel.) Torr. & A. Gray, N 743 **D**
Mitreola sessilifolia (J. F. Gmel.) G. Don, N 303 **D, S**

LYTHRACEAE

- Ammannia coccinea* Rottb., N 980 **D**
Cuphea carthagenensis (Jacq.) Macbr.,* N 844 **D, FM, Pr**
Didiplis diandra (DC.) Wood, N 1752 **D**
Lythrum alatum Pursch var. *lanceolatum* (Ell.) Torr. & A. Gray ex Rothrock, N 339 **D, FM**
Rotala ramosior (L.) Koehne, N 924 **D, FM**

MAGNOLIACEAE

- Liriodendron tulipifera* L.,* N 1535 **D**
Magnolia grandiflora L., N 1381 **B**
Magnolia virginiana L., N 1242 **Pi, S**

MALVACEAE

- Callirhoe papaver* (Cav.) A. Gray, N 1331 **D**
Hibiscus aculeatus Walt., N 282 **D, Pi**
Hibiscus moscheutos L. ssp. *lasiocarpus* (Cav.) O.J. Blanchard, N 1427 **D, BM, FM**
Hibiscus moscheutos L. ssp. *moscheutos* L., N 1444 **D, S**
Kosteletzkya virginica (L.) Presl. ex A. Gray, N 1434 **BM**
Malvaviscus arboreus Dill. ex Cav. var. *drummondii* (Torr. & A. Gray) Schery,* N 1472 **D, Pr**
Modiola caroliniana (L.) G. Don, N 1732 **D, Pr**
Sida rhombifolia L., N 726 **D**
Sida spinosa L., Th 66905 **D**

MELASTOMATACEAE

- Rhexia alifanus* Walt., N 284 **Pi**
Rhexia lutea Walt., N 1385 **Pi**
Rhexia mariana L. var. *mariana*, N 653 **D, Pr, Pi**
Rhexia petiolata Walt., N 283 **Pi**
Rhexia virginica L., N 290 **Pi**

MELIACEAE

- Melia azedarach* L.,* N 610 **D**

MENISPERMACEAE

- Cocculus carolinus* (L.) DC., N 1504 **D**

MOLLUGINACEAE

- Mollugo verticillata* L., N 1405 **D, Pr**

MORACEAE

- Fatoua villosa* (Thunb.) Nakai,* N 1143 **B**
Maclura pomifera (Raf.) Schneider,* N 1036 **B, D**
Morus alba L.,* N 514 **D**
Morus rubra L., N 1503 **B, D, Pi, Pr**

MYRICACEAE

- Myrica cerifera* L., N 351 **B, D, Pi, Pr**
Myrica heterophylla Raf., N & M 1598 (MCN) **Pi**

NELUMBONACEAE

- Nelumbo lutea* (Willd.) Pers., N 1005 **BM, FM**

NYCTAGINACEAE

- Boerhavia erecta* L., N 1093 **D**

NYMPHEACEAE

- Nuphar advena* (Aiton) Aiton f., N 542 **D, BM, FM, S**
Nymphaea elegans Hook., N 1006 **BM** (S1/S2)
Nymphaea odorata Aiton, N 1064 **D, BM, FM**

NYSSACEAE

- Nyssa aquatica* L., N 662 **S**
Nyssa biflora (Walt.) Sarg., N 333 **B, Pi, Pr**
Nyssa sylvatica Marshall, N 1250 **Pi**

OLEACEAE

- Chionanthus virginicus* L., N 1210 **B, S**
Fraxinus americana L., N & Komo 1619 (MCN) **B, Pi**
Fraxinus caroliniana P. Mill., N 664 **S**
Fraxinus pennsylvanica Marshall, N 1016 **B**
Ligustrum japonicum Thunb.,* N 735 **D**
Ligustrum lucidum Aiton f.,* N & M 1595 (MCN) **Pi**
Ligustrum sinense Lour.,* N 348 **D, Pr**

ONAGRACEAE

- Gaura lindheimeri* Engelm. & A. Gray, N 574 **D, Pi, Pr**
Gaura longiflora Spach, N 941 **D**
Gaura parviflora Douglas ex Lehm., N 1406 **D, BM**
Ludwigia alternifolia L., Brooks 394 (MCN) **B, D, FM**
Ludwigia decurrens Walt., N 859 **D, FM, Pr, S**
Ludwigia glandulosa Walt., N 922 **D, FM, S**
Ludwigia hirtella Raf., N 1395 **Pi**
Ludwigia leptocarpa (Nutt.) Hara, N 975 **D, BM, FM**
Ludwigia linearis Walt., N 1053 **D, FM, Pr, S**
Ludwigia microcarpa Michx., Orzell & Bridges 5760 (LSU) **Pi** (S1)
Ludwigia octovalvis (Jacq.) P.H. Raven, N 378 **D, FM, S**
Ludwigia palustris (L.) Ell., N 923 **D, S**
Ludwigia peploides (Kunth) P.H. Raven, N 921 **D, S**
Ludwigia pilosa Walt., Th 81866 **D, FM, S**
Ludwigia sphaerocarpa Ell., N 1076 **D, FM, Pi, S**

- Ludwigia uruguayensis* (Cambess) H. Hara, N 740 **D, BM, FM, S**

- Oenothera biennis* L., N 1022 **D**

- Oenothera grandis* (Britt.) Smyth, Givens 1887 (LSU) **D**

- Oenothera heterophylla* Spach, N 1453 **D**

- Oenothera laciniata* Hill, N 560 **D**

- Oenothera linifolia* Nutt., N 1241 **Pi**

- Oenothera spachiana* Torr. & A. Gray, Givens 1888 (LSU) **D, Pr**

- Oenothera speciosa* Nutt., N 1321 **D**

OROBANCHACEAE

- Epifagus virginiana* (L.) Barton, N 419 **B**

OXALIDACEAE

- Oxalis debilis* var. *corymbosa* (DC.) Lour.,* N & M 1718 (MCN) **D**
Oxalis rubra St.-Hil.,* N 1231 **D**
Oxalis dillenii Jacq., Costanza 11 (MCN) **D**

PAPAVERACEAE

- Argemone albiflora* Hornem., N 1736 **D**

PASSIFLORACEAE

- Passiflora incarnata* L., N 346 **D**
Passiflora lutea L., N 273 **B, D, S**

PHYTOLACCACEAE

- Phytolacca americana* L., N 629 **D**

PLANTAGINACEAE

- Plantago aristata* Michx., N 596 **D**
Plantago heterophylla Nutt., DeLeny 1 (MCN) **D**
Plantago major L., N 642 **D**
Plantago virginica L., N 444 **D**

PLATANACEAE

- Platanus occidentalis* L., N 513 **B, S**

POLEMONACEAE

- Phlox pilosa* L., N 1277 **D, Pi**

POLYGALACEAE

- Polygala crenata* James, T 25650 **Pi**
Polygala cruciata L., N 289 **Pi**
Polygala incarnata L., N 1760 **Pi**
Polygala leptocaulis Torr. & A. Gray, N 712 **D, Pi, Pr**
Polygala mariana P. Mill., N 566 **Pi**
Polygala nana (Michx.) DC, N 675 **Pi**
Polygala polygama L., N 1747 **Pi**
Polygala ramosa Ell., N 288 **Pi**
Polygala verticillata L., N 625 **D**

POLYGONACEAE

- Brunnichia ovata* (Walt.) Shinnars, N 829 **B, S**
Polygonum cespitosum Blume, N 1115 **D, Pr**
Polygonum densiflorum Meisn., N 826 **D, S**
Polygonum hydropiperoides Michx., N 344 **D, FM, S**
Polygonum pensylvanicum L., N 1009 **D, FN, S**

Polygonum punctatum Ell., N 382 **D, FM, Pr, S**
Rumex chrysocarpus Moris, N 827 **D, S**
Rumex crispus L.,* N 1308 **D**
Rumex hastatulus Ell., N 592 **D**
Rumex obovatus Danser,* N 1362 **D**
Rumex pulcher L.* Hebert 4 (MCN) **D, Pr**
Rumex verticillatus L., N 1229 **D, FM, S**

PORTULACACEAE

Claytonia virginica L., N 1198 **B**
Portulaca oleracea L., N 811 **D**
Portulaca pilosa L., N 1886 **D**

PRIMULACEAE

Anagallis arvensis L.,* N 1361 **D, PI, PR**
Anagallis minima (L.) Krause, N 1182 **D**
Lysimachia radicans Hook., N 690 **S**
Samolus ebracteatus Kunth, N 1347 **D, BM** (S1)
Samolus valerandi L., N 1269 **B, D, S**

RANUNCULACEAE

Anemone caroliniana Walt., Brooks 379 (MCN) **D, Pi**
Clematis crispa L., N 762 **B, D, S**
Clematis terniflora DC.,* N 271 **D**
Delphinium carolinianum Walt., Lemmon 1204 (LSU) **Pi**
Ranunculus fascicularis Muhl. ex Bigelow, Mistretta s.n. (NLU) **D, Pr**
Ranunculus muricatus L.,* N 1180 **D**
Ranunculus parviflorus L.,* Mistretta s.n. (NLU) **D**
Ranunculus pusillus Poir., N 1169 **D, FM, S**
Ranunculus sardous Crantz,* N 621 **D**
Ranunculus sceleratus L., N 1164 **D, FM, S**
Ranunculus trilobus Desf.,* T 30626 **D**

RHAMNACEAE

Berchemia scandens (Hill) K. Koch, N 1391 **B, D, Pi, S**
Frangula caroliniana (Walt.) A. Gray, N 1474 **B**

ROSACEAE

Aronia arbutifolia (L.) Ell., N 1574 **Pi**
Crataegus marshallii Eggl., N 1204 **B**
Crataegus opaca Hook. & Arn., N 1683 **B**
Crataegus viridis L., N 1071 **B, S**
Duchesnea indica (Andrz.) Focke,* Ashworth 19 (MCN) **D**
Geum canadense Jacq., N 1354 **S**
Prunus caroliniana (P. Mill.) Aiton, N 1031 **B, D**
Prunus serotina Ehrh., N 462 **B, D**
Prunus americana Marshall, N & M 1601 (MCN) **B**
Pyrus calleryana Decne.,* N 1072 **D**
Pyrus communis L.,* N 829 **D**
Rosa bracteata Wendl.,* N 1356 **D**
Rubus argutus Link, N 1290 **D, Pi, S**
Rubus trivialis Michx., N 1257 **D, Pi, Pr**

RUBIACEAE

Cephalanthus occidentalis L., N 715 **FM, S**
Diodia teres Walt., N 955 **D, Pi, Pr**
Diodia virginiana L., N 341 **D, Pr, S**
Galium aparine L., N 1165 **B, D, Pr**
Galium parisiense L.,* T 29393 **D**
Galium tinctorium (L.) Scop., N 591 **D, Pr, S**
Hedyotis nigricans (Lamb.) Fosb., N 581 **D, Pr**
Houstonia micrantha (Shinners) Terrell, N 449 **D**
Houstonia pussila Schoepf., N 440 **D, Pr**
Mitchella repens L., N 276 (MCN) **B**
Oldenlandia boscii (DC.) Chapm., N 1477 **B, Pi**
Oldenlandia uniflora L., N & M 1610 (MCN) **Pi**
Sherardia arvensis L.,* N 439 **D**

RUTACEAE

Poncirus trifoliata (L.) Raf.,* N 1213 **B**
Ptelea trifoliata L., N 1734 **B**
Zanthoxylum clava-herculis L., N 1306 **D, Pr**

SALICACEAE

Populus deltoides Bartr. ex Marshall, N 1370 **B, D**
Salix babylonica L.,* N 1536 **D**
Salix humilis Marshall, T 22975 **Pr** (S2)
Salix nigra Marshall, N 468 **D, S**

SAPINDACEAE

Cardiospermum halicacabum L., N 1000 **D**
Koelreuteria paniculata Laxm.,* N 1554 **D**

SAPOTACEAE

Sideroxylon lanuginosum Michx. ssp. *oblongifolium* (Nutt.) T.D. Pennington, N & M 1625 (MCN) **Pi**
Sideroxylon lycioides L., N & M 1603 (MCN) **Pi**

SARRACENIACEAE

Sarracenia alata (Wood) Wood, N 1496 **Pi**

SAURURACEAE

Saururus cernuus L., N 639 **S**

SAXIFRAGACEAE

Lepuropetalon spathulatum (Muhl.) Ell., N 1216 **D**

SCROPHULARIACEAE

Agalinis fasciculata (Ell.) Raf., N 1055 **D, Pi, Pr**
Agalinis filicaulis (Benth.) Pennell, N 1538 **Pi** (S1)
Agalinis heterophylla (Nutt.) Small ex Britt., N 1546 **D**
Agalinis oligophylla Pennell, N 1567 **Pi**
Agalinis purpurea L. Pennell, N 405 **Pi**
Agalinis tenuifolia (Vahl) Raf., Joor s.n. (NLU) **D, Pi**
Agalinis viridis (Small) Pennell, Urbatsch 2087 (LSU) **D**
Aureolaria pectinata (Nutt.) Pennell, Givens 4265 (LSU) **Pi**
Aureolaria virginica (L.) Pennell, N 1486 **Pi**
Bacopa caroliniana (Walt.) Robins., N 299 **D, FM, S**

- Bacopa monnieri* (L.) Wettst., N 1400 **D, FM, S**
Bacopa repens (Sw.) Wettst., N 342 **D**
Bacopa rotundifolia (Michx.) Wettst., N 1446 **D, FM**
Buchnera americana L., N 1345 **Pi**
Castilleja coccinea (L.) Spreng., *Featherman s.n.* (LSU) **Pr**
Gratiola brevifolia Raf., N 298 **D, S**
Gratiola pilosa Michx., N 1452 **Pi, S**
Gratiola ramosa Walt., *Allison* 296 (MO) **D, FM**
Gratiola virginiana L., N 460 **D, S**
Lindernia dubia (L.) Pennell var. *anagallidea* (Michx.) Cooperrider, N 1454 **D, FM, Pi, S**
Mazus pumilus (Burm. f.) Steenis,* N 368 **D, B**
Mecardonia acuminata (Walt.) Small, N 1103 **D, FM, Pi, S**
Mecardonia procumbens (P. Mill.) Small, N 1490 **D, S**
Micranthemum umbrosum (J.F. Gmel.) Blake, N 699 **D, S**
Mimulus alatus Aiton, N 902 **S**
Nuttallanthus canadensis (L.) D.A. Sutton, N 563 **D**
Pedicularis canadensis L. Pennell 1012 (NO) **B**
Penstemon laxiflorus Pennell Small, N 1248 **Pi**
Seymeria cassioides (Walt.) Blake, N 1525 **Pi**
Scoparia dulcis L., N 1080 **D, Pi, Pr, S**
Verbascum thapsus L.,* N 1313 **D**
Veronica arvensis L.,* N 1140 **D**
Veronica peregrina L.,* N 1141 **D**
Veronica persica Poir.,* N 472 **D**

SOLANACEAE

- Calibrachoa parviflora* (Juss.) D'Arcy., N 1530 **BM**
Lycium barbarum L.,* C s.n. **D**
Physalis angulata L., N 1494 **D, PR**
Physalis cordata P. Mill., *Correll & Correll* 9566 (LSU) **D**
Physalis pubescens L., N 926 **D, PR**
Solanum carolinense L., N 754 **D, Pr**
Solanum ptychanthum Dunal, N 766 **D, Pr**

SPHENOCLEACEAE

- Sphenoclea zeylanica* Gaertn.,* N 343 **D, Pr**

STERCULIACEAE

- Melochia corchorifolia* L.,* N s.n. **D**

STYRACACEAE

- Halesia diptera* Ellis, N 466 **B**
Styrax americanus Lam., N 1275 **B, S**
Styrax grandifolius Aiton, *Nogle s.n.* (LAF) **B**

SYMPLOCACEAE

- Symplocos tinctoria* (L.) L'Hér., N 465 **B, S**

TAMARICACEAE

- Tamarix gallica* L.,* N 1303 **BM, D**

TILIACEAE

- Tilia americana* L. var. *caroliniana* (P. Mill.) Castigl., N 1558 **Pi**

ULMACEAE

- Celtis laevigata* Willd., N 1043 **B, Pr, S**
Planera aquatica J. F. Gmel., N 1195 **B, S**
Ulmus alata Michx., N 611 **B, Pi**
Ulmus americana L., N & M 1720 (MCN) **B**

URTICACEAE

- Boehmeria cylindrica* (L.) Sw., N 318 **B, S**
Parietaria floridana Nutt., *Montz* 3030 (LSU) **BM**
Pilea pumila (L.) A. Gray, N 1106 **B, S**
Urtica chamaedryoides Pursh, N 1729 **D**

VALERIANACEAE

- Valerianella radiata* (L.) Dufr., N 1340 **D, Pr**

VERBENACEAE

- Callicarpa americana* L., N 272 **B, Pi, Pr, S**
Glandularia canadensis (L.) Small, *Milsom* 18 (MCN) **D, Pi**
Glandularia pulchella (Sweet) Troncoso,* N 1224 **D**
Lantana camara L.,* N 1116 **D**
Phyla lanceolata (Michx.) Greene, N 1369 **BM, D, FM, Pr**
Phyla nodiflora (L.) E. Greene, N 1366 **BM, D, FM, Pi**
Verbena brasiliensis Vell.,* N 630 **D**
Verbena halei Small, N 520 **D**
Verbena rigida Spreng.,* N 544 **D**
Verbena scabra Vahl, N 898 **BM, FM**
Verbena xutha Lehm., *Montz* 2294 (LSU) **D**

VIOLACEAE

- Viola affinis* LeConte, N 1150 **B, S**
Viola lanceolata L., N 1252 **Pi**
Viola missouriensis Greene, *Blackwood* 1 (LSU) **B**
Viola pedata L. King 7 (MCN) **Pi**
Viola X primulifolia (pro sp.), N 418 **Pi**
Viola sagittata Aiton, C s.n. **Pi**
Viola septemloba House, N 456 **B, Pi**
Viola walteri House, N 1215 **B**

VISCACEAE

- Phoradendron leucarpum* (Raf.) Reveal & M.C. Johnston, N 1144 **P**

VITACEAE

- Ampelopsis arborea* (L.) Koehne, N 612 **B, FM, S**
Parthenocissus quinquefolia (L.) Planch., N 387 **D, Pi, Pr**
Vitis cinerea Engelm., N 930 **B**
Vitis mustangensis Buckl., N 702 **D, BM**
Vitis rotundifolia Michx., N 533 **B, Pi, S**
Vitis vulpina L., N 265 **B, D, Pi**

MAGNOLIOPHYTA (Liliopsida)

AGAVACEAE

Manfreda virginica (L.) Salisb. ex Rose, N 782 **D, Pi, Pr**
Yucca aloifolia L., N 998 **D**

ALISMATACEAE

Echinodorus cordifolius (L.) Griseb., N 1078 **D, FM, S**
Echinodorus berteroi (Spreng.) Fassett, N 1012 **D, FM**
Sagittaria calycina Engelm. var. *calycina*, Th 30114 **D, FM**
Sagittaria lancifolia L., N 1442 **BM, D, FM**
Sagittaria graminea Michx., N 345 **D, FM, Pr**
Sagittaria latifolia Willd., N 727 **D, FM**
Sagittaria papillosa Buch., Tallman 19 (LSU) **D, FM, S**
Sagittaria platyphylla Engelm., N 312 **BM, D, FM**

ARACEAE

Arisaema dracontium (L.) Schott, N 493 **B**
Arisaema triphyllum (L.) Schott ssp. *quinatum* (Buckl.) Huttleston, N 500 **B**
Colocasia esculenta (L.) Schott,* N 1037 **D, FM**
Peltandra virginica (L.) Schott, N 492 **D, FM, S**
Pistia stratiotes L., N 869 **D, FM**

ARECACEAE

Sabal minor (Jacq.) Pers., N 638 **S**
Sabal palmetto (Walt.) Lodd. ex Schult. & Schult.,* N 1506 **D**

BROMELIACEAE

Tillandsia recurvata (L.) L., N 1846 **E**
Tillandsia usneoides (L.) L., N 1376 **E**

BURMANNIACEAE

Apteria aphylla (Nutt.) Barnh., N 1621 **Pi**

COMMELINACEAE

Commelina diffusa Burm. f., N 978 **B, D, FM**
Commelina erecta L., N 809 **D, Pr**
Commelina virginica L., N 901 **B, S**
Tradescantia hirsutiflora Bush, N 1207 **D, Pr**
Tradescantia occidentalis (Britton) Smyth, Th 89238 **Pr**
Tradescantia ohiensis Raf., N 1220 **BM, D**
Tradescantia reverchonii Bush, Orzell & Bridges 7112 (NLU) **Pi**

CYPERACEAE

Carex abscondita Mackenzie, N & M 1726 (MCN) **B**
Carex albicans Willd. var. *australis* (Bailey) J. Rettig, M & N 2771 (MCN) **B**
Carex annectens (Bickn.) Bickn., M & N 2766 (MCN) **Pr**

Carex basiantha Steud., N & M 1728 (MCN) **B**
Carex cherokeensis Schwein., N & M 1724 (MCN) **D, Pr**
Carex complanata Torr. & Hook., N 604 **B**
Carex debilis Michx., N & M 1727 (MCN) **B**
Carex digitalis Willd., M & N 2772 (MCN) **B**
Carex flaccosperma Dewey, N 553 **Pr**
Carex frankii Kunth, N 637 **D, Pr**
Carex glaucescens Ell., N 802 **B, D, Pi**
Carex intumescens Rudge, N 603 **B**
Carex jorii Bailey, T 20606 **B, FM**
Carex leavenworthii Dewey, N & M 1715 (MCN) **D**
Carex lupulina Willd., Th 14405 **D, Pr**
Carex microdonta Torr. & Hook., M & N 2765 (MCN) **Pr**
Carex oxylepis Torr. & Hook., N & M 1723 (MCN) **B**
Carex reniformis (Bailey) Small, M & N 2775 (MCN) **B**
Carex styloflexa Buckl., N & M 1725 (MCN) **B**
Carex verrucosa Muhl., Orzell & Bridges (NLU) **BM, FM**
Carex vulpinoidea Michx., A 10021 (LAF) **D, Pr**
Cladium mariscus (L.) Pohl ssp. *jamaicense* (Crantz) Kukenth., N 747 **BM, FM**
Cyperus articulatus L., N 984 **BM, D, FM, S**
Cyperus compressus L., Th 66923 **D, Pr**
Cyperus croceus Vahl, N 745 **D, Pr**
Cyperus elegans L., N 995 **D, Pr**
Cyperus entrerianus Boekler, Carter 8130 (VDB) **D**
Cyperus erythrorhizos Muhl., N 866 **BM, FM**
Cyperus esculentus L., N 805 **D, FM**
Cyperus flavescens L., N 1077 **D, Pi**
Cyperus giganteus Vahl,* B 9719 **FM**
Cyperus haspan L., N 819 **D, Pr**
Cyperus iria L.,* N 867 **D, Pr**
Cyperus odoratus L., N 694 **BM, FM**
Cyperus oxylepis Nees ex Steud., T 23505 **D, FM**
Cyperus pilosus Vahl,* C s.n. **D**
Cyperus polystachyos Rottb. var. *texensis* (Torr.) Fern., N 991 **D, Pr**
Cyperus pseudovegetus Steud., N 910 **D, Pr**
Cyperus retrorsus Chapm., N 834 **D, Pr**
Cyperus rotundus L.,* N 1013 **D, Pr**
Cyperus strigosus L., N 911 **D, Pr, FM**
Cyperus surinamensis Rottb., T 31645 **D, B**
Cyperus virens Michx., N 663 **B, D, S**
Eleocharis acicularis (L.) Roem. & Schult., Th 87978 **D, Pr**
Eleocharis baldwinii (Torr.) Chapm., N 927 **D**
Eleocharis microcarpa Torr., N 615 **D, Pr**
Eleocharis montana (Kunth) Roem. & Schult., N 605 **D, Pr**
Eleocharis montevidensis Kunth, N 528 **D, Pr**
Eleocharis obtusa (Willd.) Schult., T 29415 **D, Pr**

Eleocharis parvula (Roem. & Schult.) Link, *N* 1034 **D, BM, FM**
Eleocharis quadrangulata (Michx.) Roem. & Schult., *N* 587 **D**
Eleocharis tricostata Torr., *Th* 48235 **Pi**
Eleocharis tuberculosa (Michx.) Roem. & Schult., *N* 949 **D, S**
Fimbristylis annua (All.) Roem. & Schult., *N* 964 **D, Pr**
Fimbristylis autumnalis (L.) Roem. & Schult., *N* 1040 **D, Pr**
Fimbristylis caroliniana (Lam.) Fern., *N* 820 **D, Pr**
Fimbristylis miliacea (L.) Vahl, * *N* 863 **Pr**
Fimbristylis puberula (Michx.) Vahl, *Th* 30109 **D, Pr**
Fimbristylis tomentosa Vahl, *Th* 84877 **D, Pr**
Fimbristylis vahlii (Lam.) Link, *B* 17774 **B, D**
Fuirena breviseta (Coville) Coville, *N* 1423 **D, FM**
Fuirena squarrosa Michx., *N* 950 **FM**
Isoleppis carinata Hook. & Arn. ex Torr., *N* 1745 **D, Pr**
Isolepis molesta (M.C. Johnson) S.G. Sm., *T* 30614 **BM**
Kyllinga brevifolia Rottb., *Th* 66924 **D, Pr**
Kyllinga odorata Vahl *Lievens* 1265 (LSU) **D, FM**
Kyllinga pumila Michx., *N* 913 **D, Pr**
Rhynchospora caduca Ell., *N* 908 **Pr**
Rhynchospora cephalantha A. Gray, Orzell & Bridges 7404 (NLU) **Pi**
Rhynchospora colorata (L.) H. Pfeiffer, Watson 90 (MCN) **D, Pi, Pr**
Rhynchospora corniculata (Lam.) A. Gray, Joyce 407 (LAF) **D, BM**
Rhynchospora divergens Chapm. ex M.A. Curtis, Givens s.n. (LSU) **Pi, S** (S1)
Rhynchospora elliottii A. Dietr., *Th* 14366 **D, Pr**
Rhynchospora fascicularis (Michx.) Vahl, *N* 1424 **D, Pi**
Rhynchospora filifolia A. Gray, Orzell & Bridges 6983 (NLU) **Pi**
Rhynchospora globularis (Chapm.) Small, *N* 527 **D, Pr**
Rhynchospora glomerata (L.) Vahl., *T* 31652 **D, Pi**
Rhynchospora gracilentia A. Gray, *N* & *M* 1596 **Pi**
Rhynchospora inexpansa (Michx.) Vahl, *N* 723 **D, Pi**
Rhynchospora latifolia (Baldwin ex Ell.) Thomas, *N* 301 **D, Pi, Pr**
Rhynchospora macrostachya A. Gray, *N* 969 **D, S**
Rhynchospora microcarpa Baldwin ex A. Gray, Orzell & Bridges 7120 (LSU) **D, FM**
Rhynchospora miliacea (Lam.) A. Gray, Featherman s.n. (LSU) **B, S**
Rhynchospora mixta Britton ex Small, *N* 907 **S**
Rhynchospora nitens (Vahl) A. Gray, *C s.n.* **Pi**

Rhynchospora oligantha A. Gray, *N* & *M* 1594 (MCN) **Pi**
Rhynchospora perplexa Britton, *Th* 89309 **Pr**
Rhynchospora plumosa Ell. Joyce 288 (LAF) **Pi**
Rhynchospora pusilla Chapm. ex M.A. Curtis, *B* 13825 (NLU) **D, BM**
Rhynchospora rariflora (Michx.) Ell., *Th et al.* 89449 **Pi, S**
Rhynchospora tracyi Britton, *C s.n.* **Pi, S** (SH)
Schoenoplectus maritimus (L.) Lye, *T* 30614 **BM, D**
Schoenoplectus robustus (Pursh) M.T. Strong, *N* 1579 **D, BM**
Schoenoplectus tabernaemontani (K.C. Gmel.) Palla, Montz 6497 (LSU) **D**
Scirpus californicus (C.A. Meyer) Steud., *Th* 89218 **D, BM, FM**
Scirpus cyperinus (L.) Kunth, *T* 31682 **FM, S**
Scleria baldwinii (Torr.) Steud., Orzell & Bridges 6870 (NLU) **D, Pi**
Scleria ciliata Michx., *A* 15119 **Pi**
Scleria georgiana Core, *B* 13828 (NLU) **Pi, S**
Scleria oligantha Michx. Joyce 405 (LAF) **Pi**
Scleria pauciflora Muhl. ex Willd., *Th* 129557 **Pi**
Scleria reticularis Michx., Pias et al. 445 (LAF) **Pi, S**
Scleria triglomerata Michx., *N* 1748 **Pi**
Scleria verticillata Willd., Orzell & Bridges 5759 (NLU) **Pi, S** (S1)

DIOSCOREACEAE

Dioscorea villosa L., *N* 1264 **B**

ERIOCAULACEAE

Eriocaulon decangulare L., *N* 796 **Pi**
Lachnocaulon anceps (Walt.) Morong, *N* 1219 **Pi**

HYDROCHARITACEAE

Egeria densa Planch., * *N* 720 **BM, FM, S**
Limnobium spongia (Bosc) Steud., *N* 1025 **BM, FM, S**
Ottelia alismoides (L.) Pers., * *N* 1007 **BM**
Vallisneria americana Michx., *N* 1467 **BM**

HYPOXIDACEAE

Hypoxis hirsuta (L.) Coville, *N* 334 **B, D, Pi**

IRIDACEAE

Herbertia lahue (Molina) Goldblatt ssp. *caerulea* (Herbert) Goldblatt, *N* 1273 **D, Pr**
Alophia drummondii (Graham) R. C. Foster, Weber 26 (MCN) **Pi**
Iris brevicaulis Raf. Whatley 2197 (LAF) **FM**
Iris pseudacorus L.* Ashworth 29 (MCN) **D**
Iris virginica L., *N* 521 **D, FM, S**
Sisyrinchium angustifolium P. Mill., *N* & *M* 1714 (MCN) **B**
Sisyrinchium atlanticum Bicknell, *N* 526 **D, Pi, Pr**

Sisyrinchium rosulatum Bicknell, N 1191 **D**
Sisyrinchium sagittiferum Bicknell, N 501 **D, Pr**

JUNCACEAE

Juncus acuminatus Michx., Giltner 393 (MCN) **D, Pi, Pr**
Juncus biflorus Ell., Th 89245 **Pi**
Juncus brachycarpus Engelm., Brooks 608 (MCN) **D, Pi, Pr**
Juncus bufonius L., T 23506 **D, Pi, Pr**
Juncus dichotomus Ell., Brooks 610 (MCN) **D, Pi, Pr**
Juncus diffusissimus Buckl., N 722 **D, Pi, Pr**
Juncus dudleyi Wiegand, Th 81581 **Pr**
Juncus effusus L., N 543 **D, FM, Pr**
Juncus elliottii Chapm., Brooks 609 (MCN) **D, Pi, Pr**
Juncus marginatus Rostk., Giltner 516 (MCN) **D, FM, Pi**
Juncus nodatus Coville, Giltner 391 (MCN) **D, FM, Pi**
Juncus polycephalus Michx., Giltner 523 (MCN) **D, Pi**
Juncus repens Michx., Giltner 522 (MCN) **D, Pi, Pr**
Juncus roemerianus Scheele, Giltner 487 (MCN) **BM, Pr**
Juncus scirpoides Lam., N 550 **D, Pi, Pr**
Juncus tenuis Willd., N 756 **D, S, Pr**
Juncus validus Coville, N 755 **D, FM, Pi**

LEMNACEAE

Lemna minor L., N 1087 **S**
Lemna valdiviana Phil., N 744 **S**
Spirodela polyrrhiza (L.) Schleid., N 1086 **S**
Spirodela punctata (G.F.W. Mey.) C.H. Thompson, N 628 **S**
Wolffia brasiliensis Weddell, N 1208 **S**
Wolffia columbiana Karst., N 1151 **S**
Wolffiella lingulata (Hegelm.) Hegelm., N 1154 **S**

LILIACEAE

Aletris aurea Walt., N 565 **Pi**
Aletris farinosa L., N 566 **Pi**
Allium canadense L. var. *canadense*, N 1228 **B, D, Pr**
Allium canadense var. *mobile* (Regel) Ownbey, N 1297 **B, D, Pr**
Cooperia drummondii Herbert, Th 66940 **Pr** (S1/S2)
Crinum americanum L., N 785 **BM, FM, S**
Habranthus tubispathus (L'Hér.) Traub, N 1784 **D**
Hymenocallis liriosome (Raf.) Shinnars, N 1196 **BM, FM, Pi, S**
Melanthium virginicum L., N & Komo 1777 **Pi**
Nothoscordum bivalve L., N 1089 **D, Pr**
Schoenolirion croceum (Michx.) A. Gray, N 1218 **Pi**

Trillium gracile Freeman, N 455 **B**
Zephyranthes grandiflora Lindl., N 1417 **D**

NAJADACEAE

Najas guadalupensis (Spreng.) Magnus, Haynes 2504 (LAF) **D, BM, FM**

ORCHIDACEAE

Calopogon oklahomensis D.H. Goldman, Pennell 10242 (NY) **Pi**
Calopogon tuberosus (L.) B.S.P., N 1341 **Pi**
Corallorrhiza wisteriana Conrad, N 1706 **B**
Epidendrum conopseum R. Br., Correll & Correll 9660 (DUKE) **E**
Habenaria repens Nutt., N 974 **S**
Listera australis Lindl., N 1689 **B**
Platanthera ciliaris (L.) Lindl., N 1497 **Pi**
Platanthera cristata (Michx.) Lindl., N 1790 **Pi**
Platanthera flava (L.) Lindl., N & Komo 1781 **Pi**
Platanthera nivea (Nutt.) Luer, N 1410 **Pi**
Pogonia ophioglossoides (L.) Ker-Gawl., N 1336 **Pi**
Spiranthes cernua var. *odorata* (Nutt.) Correll, N 348 **S**
Spiranthes longilabris Lindl., N & Komo 1804 **Pi**
Spiranthes praecox (Walt.) S. Watson, N 582 **Pi**
Spiranthes vernalis Engelm. & A. Gray, N 669 **BM, D, FM, Pi, Pr**
Tipularia discolor (Pursh) Nutt., N 1624 **B**

POACEAE

Agrostis hyemalis (Walt.) B.S.P., N 548 **D**
Andropogon gerardii Vitman, Brooks 595 (MCN) **Pi, Pr**
Andropogon glomeratus (Walt.) B.S.P. var. *glomeratus*, N 1056 **D**
Andropogon gyrans Ashe var. *gyrans*, B et al. 8674 **Pi**
Andropogon ternarius Michx., T 31890 **Pr**
Andropogon virginicus L., T 27991 **D**
Anthraenantia rufa (Nutt.) Schult., Brooks 794 (MCN) **Pi**
Anthraenantia villosa (Michx.) P. Beauv., Brooks 594 (MCN) **Pi**
Aristida longispica Poir., T 28008 **D, Pi, Pr**
Aristida oligantha Michx., T 9644 **D, Pi, Pr**
Aristida palustris (Chapm.) Vasey, N 1600 **Pi**
Aristida purpurascens Poir., Brooks 802 (MCN) **D, Pi, Pr**
Arundinaria gigantea (Walt.) Muhl., N 264 **B, Pi**
Axonopus fissifolius (Raddi) Kuhl., N 914 **D**
Axonopus furcatus (Fluegge) Hitchc., B et al. 8668 **D, S, Pi**
Bothriochloa exaristata (Nash) Henrard, Th 98153 **D, Pr**
Bothriochloa ischaemum (L.) Keng,* N 1018 **D**
Bothriochloa laguroides (DC.) Herter ssp.

- torreyana* (Steud.) Allred & Gould, *Th* 66885 **D**
- Bothriochloa longipaniculata* (Gould) Allred & Gould, *Th* 84788 **D**
- Bouteloua hirsuta* Lag., *C s.n.* **D** (SR)
- Brachiaria platyphylla* (Munro ex Wright) Nash, *N* 828 **D**
- Brachiaria texana* (Buckl.) S.T. Blake, *Th* 66891 **D**
- Briza minor* L., * *Costanza* 3 (MCN) **D**
- Bromus catharticus* Vahl, * *N* 631 **D**
- Bromus japonicus* Thunb. ex Murr., * *A* 4608 **D**
- Buchloe dactyloides* (Nutt.) Engelm., * *Chase* 6114 (US) **D**
- Cenchrus incertus* M.A. Curtis, *N* 912 **D**
- Chasmanthium latifolium* (Michx.) Yates, *N* 1051 **B, S**
- Chasmanthium laxum* (L.) Yates var. *laxum*, *Th* 14372 **B, S**
- Chloris canterai* Arechav., * *McKenzie* 223 (LSU) **D**
- Chloris virgata* Sw., *N* 697 **D**
- Cinna arundinacea* L., *C s.n.* **B**
- Coelorachis rugosa* (Nutt.) Nash, *A* 16163 **D, Pi**
- Coelorachis cylindrica* (Michx.) Nash, *B* 13811 (NLU) **D, Pi, Pr**
- Cynodon dactylon* (L.) Pers., * *N* 537 **D**
- Dactyloctenium aegyptium* (L.) P. Beauv., * *N* 894 **D**
- Dichanthelium aciculare* (Desv. ex Poir.) Gould & C.A. Clark, *B et al.* 8646 **Pi, Pr**
- Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *acuminatum*, *N* 597 **Pi, Pr**
- Dichanthelium acuminatum* (Sw.) Gould var. *lindheimeri* (Nash) Gould & C.A. Clark, *A* 4601 **D**
- Dichanthelium commutatum* Schult., *N* 317 **D**
- Dichanthelium dichotomum* (L.) Gould var. *dichotomum*, *A* 16403 **Pi**
- Dichanthelium dichotomum* (L.) Gould var. *ensifolium* (Baldw. ex Ell.) C. A. Clark, *A* 3596 **Pi**
- Dichanthelium dichotomum* (L.) Gould var. *tenue* (Muhl.) Gould & C. A. Clark, *T* 25624 **Pi**
- Dichanthelium laxiflorum* (Lam.) Gould, *B et al.* 8598 **D**
- Dichanthelium leucothrix* (Nash) Freckman, *A* 4419 (LAF) **Pi**
- Dichanthelium scabriusculum* (Ell.) Gould & C.A. Clark, *N* 586 **Pi**
- Dichanthelium scoparium* (Lam.) Gould, *N* 598 **D**
- Dichanthelium sphaerocarpon* (Ell.) Gould var. *sphaerocarpon*, *N* 498 **D**
- Dichanthelium strigosum* (Muhl. ex Ell.) Freckman var. *leucoblepharis* (Trin.) Freckman, *B* 8669 **Pi**
- Digitaria ciliaris* (Retz.) Koeler, *A* 4593 (LAF) **D**
- Digitaria cognata* (J. A. Schultes) Pilger var. *cognata*, *B et al.* 8661 **Pi**
- Digitaria filiformis* (L.) Koeler, *Brooks* 792 (MCN) **Pi**
- Digitaria ischaemum* (Schreb. ex Schweigger) Muhl., * *N* 1094 **D**
- Digitaria violascens* Link* *N.* & *Komo* 1619 **D**
- Distichlis spicata* (L.) Greene, *N* 987 **BM**
- Echinochloa colona* (L.) Link, * *N* 1425 **D**
- Echinochloa crus-galli* (L.) P. Beauv., * *N* 852 **D**
- Echinochloa muricata* (P. Beauv.) Fern., * *Brooks* 300 (LSU) **D**
- Echinochloa walteri* (Pursh) Heller, * *N* 865 **BM, FM, S**
- Eleusine indica* (L.) Gaertn., * *Gaskin* 30 (MCN) **D**
- Elymus virginicus* L., *N* 696 **D**
- Eragrostis bahiensis* Schrad., * *A* 4432 (LAF) **D**
- Eragrostis barrelieri* Daveau, * *Th* 66893 **D**
- Eragrostis campestris* Trin., *Th* 66892 **Pi, Pr**
- Eragrostis glomerata* (Walt.) L.H. Dewey, *N* 1123 **B, D**
- Eragrostis hirsuta* (Michx.) Nees, *T* 20620 **D, Pr**
- Eragrostis hypnoides* (Lam.) B.S.P., *N* 970 **B, D**
- Eragrostis lugens* Nees, *B et al.* 8622 **D, Pr**
- Eragrostis pectinacea* (Michx.) Nees, *N* 970 **B, D**
- Eragrostis refracta* (Muhl.) Scribn., *B et al.* 8652 **D, Pi**
- Eragrostis secundiflora* Presl, *N* 939 **D**
- Eragrostis spectabilis* (Pursh) Steud., *N* 400 **D, Pr**
- Eremochloa ophiuroides* (Munro) Hack., * *N* & *M* 1627 (MCN) **D**
- Eustachys caribaea* (Spreng.) Herter* *McKenzie* 114 (LSU) **D**
- Eustachys petraea* (Spreng.) Herter, *N* 985 **D**
- Festuca arundinacea* Schreb., * *N* 1117 **D**
- Hordeum pusillum* Nutt., *Brooks* 613 (MCN) **D**
- Leersia hexandra* Sw., *N* 977 **BM, FM, Pr**
- Leersia lenticularis* Michx., *N* 1054 **D**
- Leersia oryzoides* (L.) Sw., *N* 977 **D**
- Leptochloa fascicularis* (Lam.) A. Gray, *Th* 66898 **BM, FM**
- Leptochloa mucronata* (Michx.) P. Kunth, *Th* 66899 **B, D**
- Leptochloa nealleyi* Vasey, *N* 842 **BM, FM**
- Leptochloa uninervia* (Presl) Hitchc. & Chase, *Th* 81568 **D**
- Limnodea arkansana* (Nutt.) L.H. Dewey, *s. nom. s.n.* (LAF) **D**
- Lolium arundinaceum* S.J. Derbyshire, * *Edgerton* *s.n.* (LSU) **D**
- Lolium perenne* L., * *N* 1772 **D**
- Melica mutica* L., *N* 444 **Pi**
- Muhlenbergia capillaris* (Lam.) Trin., *A* 16119 **Pi, Pr**

Oplismenus setarius (Lam.) Roem. & Schult.,* T 20534 **Pi**
Oryza sativa L.,* N 891 **D, Pr**
Panicum anceps Michx. var. *anceps*, N 797 **D**
Panicum brachyanthum Steud., Brooks 795 (MCN) **D**
Panicum dichotomiflorum Michx., N 893 **D**
Panicum repens L., N 989 **BM, D, FM**
Panicum rigidulum var. *pubescens* (Vasey) LeLong, B et al. 8677 **Pi**
Panicum rigidulum Bosc ex Nees var. *rigidulum*, Gilmore & Smith 3461 (NLU) **D, FM, Pi**
Panicum verrucosum Muhl., N 1062 **D, Pi**
Panicum virgatum L., N 836 **BM, Pi, Pr**
Paspalum bifidum (Bertol.) Nash, Brooks 807 (MCN) **Pi**
Paspalum boscianum Fluegge, B 5370 **D**
Paspalum conjugatum Bergius, T 20530 **D**
Paspalum dilatatum Poir.,* Augustus 50 (MCN) **D**
Paspalum distichum L., N 992 **BM, D, FM**
Paspalum floridanum Michx., A 16138 (LAF) **D, Pi, Pr**
Paspalum hydrophilum Henrard,* N 854 **D**
Paspalum laeve Michx., Augustus 80 (MCN) **D**
Paspalum lividum Trin., Th 14381 **BM, D, FM**
Paspalum minus Fourn., T 31649 **D, Pi**
Paspalum notatum var. *saurae* Parodi,* Augustus 79 (MCN) **D**
Paspalum plicatulum Michx., Augustus 11 (MCN) **D**
Paspalum praecox Walt., Brooks 805 (MCN) **Pi, Pr**
Paspalum setaceum Michx., B et al. 8611 **D**
Paspalum urvillei Steud.,* N 940 **D**
Pennisetum glaucum (L.) R. Br.,* N 779 **D**
Phalaris angusta Nees ex Trin., Dutton & Taylor 1333 (NLU) **D**
Phalaris caroliniana Walt., N 551 **D**
Phanopyrum gymnocarpon Vasey, N 1108 **B, S**
Phragmites australis (Cav.) Trin., N 787 **BM**
Poa annua L.,* N 443 **D**
Poa autumnalis Muhl. ex Ell., Griggs 17 (LSU) **B**
Polypogon monspeliensis (L.) Desf.,* N 1222 **D**
Rottboellia cochinchinensis (Lour.) W. Clayton,* Walker s.n. (MCN) **D**
Saccharum baldwinii Spreng., N 1052 **D, Pi**
Saccharum giganteum (Walt.) Pers., N 1047 **D**
Sacciolepis striata (L.) Nash, B et al. 8679 **D, Pi**
Schizachyrium scoparium (Michx.) Nash, Brooks 806 (MCN) **D, Pi**
Schizachyrium tenerum Nees, Th 98157 **Pi**
Setaria faberi Herrm.,* T 28865 **D**
Setaria parviflora (Poir.) Kerguelen, N 945 **D**
Setaria pumila (Poir.) Roemer & Schult.,* McKenzie & Urbatsch 135 (LSU) **Pr**

Sorghastrum elliottii (Mohr) Nash, N 1533 **D, Pi**
Sorghastrum nutans (L.) Nash, T 27992 **D, Pi, Pr**
Sorghum bicolor (L.) Moench,* Th 66889 **D**
Sorghum halepense (L.) Pers.,* N 569 **D**
Spartina alterniflora Loisel., N 1153 **BM**
Spartina patens (Aiton) Muhl., N 1408 **BM**
Spartina spartinae (Trin.) Hitchc., N 1551 **BM, Pi**
Sphenopholis obtusata (Michx.) Scribn., A & Vincent 10022 (LAF) **D, Pi**
Sporobolus compositus (Poir.) Merr. var. *compositus*, B 8658 **BM, FM, Pr**
Sporobolus compositus var. *drummondii* (Trin.) Kartesz & Gandhi, B 8620 **Pi, Pr**
Sporobolus indicus (L.) R. Br., N 851 **D**
Sporobolus junceus (Michx.) Kunth, N 1608 **D, Pi, Pr**
Sporobolus silveanus Swall., T 31899 **Pi** (S2/S3)
Steinchisma hians (Ell.) Nash, N 601 **D**
Stenotaphrum secundatum (Walt.) Kountz, N 705 **D**
Tridens ambiguus (Ell.) Schult., Th 98149 **Pi, Pr**
Tridens flavus (L.) Hitchc., B et al. 8583 **D, Pi**
Tridens strictus (Nutt.) Nash, N 1552 **D**
Tripsacum dactyloides (L.) L., N 319 **D**
Vulpia octoflora (Walt.) Rydb., N 552 **D**
Zizania aquatica L., N 1459 **BM, FM**
Zizaniopsis miliacea (Michx.) Doell. & Asch., N 1008 **BM, FM, S**

PONTEDERIACEAE

Eichhornia crassipes (Mart.) Solms,* N 1409 **D, BM, FM, S**
Heteranthera limosa (Sw.) Willd., N 845 **D, BM, FM**
Pontederia cordata L., N 266 **D, FM, S**

POTAMOGETONACEAE

Potamogeton diversifolius Raf., N 799 **D, FM, S**
Potamogeton nodosus Poir., N 1041 **FM, BM, S**
Potamogeton pusillus L., N 1393 **BM, FM**

SMILACACEAE

Smilax bona-nox L., N 486 **B, D, Pi, Pr, S**
Smilax glauca Walt., N & M 1630 (MCN) **B, D**
Smilax laurifolia L., N 1413 **Pi, S**
Smilax pumila Walt., N 1132 **B**
Smilax rotundifolia L., N 534 **D, Pi**
Smilax smallii Morong, N 606 **B, D, S**
Smilax tamnoides L., N & M 1632 (MCN) **B, S**
Smilax walteri Pursh, N 731 **B, S**

TYPHACEAE

Typha angustifolia L.,* N 1364 **BM, FM**
Typha domingensis Pers., N 1318 **BM, D**
Typha latifolia L., N 1318 **D, FM, S**

XYRIDACEAE

Xyris ambigua Bey. ex Kunth, N 795 **D, Pi**

Hypericum gentianoides (L.) B.S.P.
Hypericum gymnanthum Engelm. & A. Gray
Hypericum nudiflorum Michx. ex Willd.

EUPHORBIACEAE

Chamaesyce hirta (L.) Millsp.
Chamaesyce prostrata (Aiton) Small
Croton lindheimerianus Scheele
Croton monanthogynous Michx.
Euphorbia spathulata Lam.
Euphorbia pubentissima Michx.
Phyllanthus caroliniensis Walt.

LAMIACEAE

Monarda fistulosa L.
Physostegia intermedia (Nutt.) Engelm. & A. Gray
Pycnanthemum muticum (Michx.) Pers.
Scutellaria parvula Michx.

LENTIBULARIACEAE

Utricularia vulgaris L.

LINACEAE

Linum berlandieri Hook
Linum floridanum (Planch.) Trel.
Linum sulcatum Riddell

LOGANIACEAE

Spigelia marilandica L.

LYTHRACEAE

Lythrum lineare L.

MALVACEAE

Callirhoe involucrata (Torr. & A. Gray)

NYCTAGINACEAE

Boerhaavia diffusa L.

ONAGRACEAE

Ludwigia repens J. Forst.

OXALIDACEAE

Oxalis violacea L.

PLANTAGINACEAE

Plantago rugelii Decne.
Plantago wrightiana Dcne.

POLYGALACEAE

Polygala curtisii A. Gray
Polygala cymosa Walt.
Polygala grandiflora Walt.
Polygala lutea L.

POLYGONACEAE

Polygonum convolvulus L.

RANUNCULACEAE

Delphinium virescens Nutt.
Ranunculus laxicaulis Darby
Ranunculus platensis Spreng.

RHAMNACEAE

Ceanothus americanus L.

ROSACEAE

Crataegus aestivalis L.
Crataegus crus-galli L.
Crataegus sabineana Ashe
Crataegus spathulata Michx.
Fragaria virginiana Duchesne
Potentilla simplex Michx.
Prunus angustifolia Marshall

RUBIACEAE

Galium pilosum Aiton
Galium trifidum L.
Galium uniflorum Michx.
Houstonia caerulea L.
Houstonia purpurea L.

SCROPHULARIACEAE

Agalinis pinetorum Pennell
Castilleja indivisa Engelm.
Gratiola neglecta Torr.
Verbascum virgatum Stokes

SOLANACEAE

Physalis heterophylla Nees
Solanum americanum P. Mill.
Solanum eleagnifolium Cav.

TAMARICACEAE

Tamarix ramosissima Ledeb.

URTICACEAE

Parietaria pensylvanica Muhl. ex Willd.

VERBENACEAE

Verbena bonariensis L.
Verbena litoralis Kunth

VIOLACEAE

Viola langloisii Greene

AGAVACEAE

Yucca filamentosa L.

CYPERACEAE

Carex leptalea Wahl
Cyperus polystachyos Rottb. var. *polystachyos*
Eleocharis elongata Chapm.
Eleocharis macrostachya Britt.
Eleocharis palustris (L.) Roem. & Schult.

IRIDACEAE

Sisyrinchium langloisii Greene

LEMNACEAE

Lemna obscura (Austin) Daubs

ORCHIDACEAE

Calopogon barbatus (Walt.) Ames

Platanthera integra (Nutt.) A. Gray ex Beck
Spiranthes cernua (L.) L. C. Rich.
Spiranthes ovalis Lindl.

POACEAE

Agrostis elliottiana Schult.
Aristida ramosissima Engelm. ex A. Gray
Bromus racemosus L.
Dichanthelium ovale var. *addisonii* (Nash) Gould & C.A. Clark
Dichanthelium ovale var. *ovale* (Ell.) Gould & C.A. Clark
Dichanthelium villosissimum (Nash) Freckman

Digitaria sanguinalis (L.) Scop.
Digitaria villosa (Walt.) Pers.
Eragrostis elliottii S. Wats.
Hackelochloa granularis (L.) Kuntze
Leersia virginica Willd.
Paspalum dissectum (L.) L.
Paspalum langei (Fourn.) Nash
Paspalum repens Berg.
Paspalum vaginatum Sw.
Saccharum brevibarbe (Michx.) Pers.
Triticum aestivum L.

APPENDIX III

REJECTED TAXA PREVIOUSLY REPORTED FOR CALCASIEU PARISH

APIACEAE

Ptilmnum nuttallii (DC.) Britt.

ASTERACEAE

Liatris spicata (L.) Willd.
Marshallia obovata (Walt.) Beadle
Rudbeckia fulgida Aiton
Rudbeckia maxima Nutt.
Solidago radula Nutt.

EUPHORBIACEAE

Cnidoscolus stimulosus (Michx.) Engelm. & A. Gray

FABACEAE

Baptisia bracteata Muhl. ex Ell. var. *leucophaea*
Lespedeza capitata Michx

JUGLANDACEAE

Carya texana Buckl.

LAMIACEAE

Physostegia pulchella Lundell
Salvia reflexa Hornem.

LAURACEAE

Persea borbonia (L.) Spreng.

RANUNCULACEAE

Anemone berlandieri Pritz.

SALICACEAE

Salix caroliniana Michx.

SARRACENIACEAE

Sarracenia flava L.

POACEAE

Aristida longispica Poir. var. *geniculata* (Raf.) Fern.

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